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OM protein - protein search, using sw model

Run on: August 25, 2005, 22:17:11 ; Search time 30.4828 Seconds
(without alignments)
4385.960 Million cell updates/sec

Title: US-09-983-025B-2

Perfect score: 9856

Sequence: 1 MMCLKILRISLAILAGWALC.....AADCDLDECTCRDPKAEHQ 1791

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	9836	99.8	1791	4	US-09-827-998-3 Sequence 3, Appli
2	9507	96.5	1770	4	US-09-827-998-10 Sequence 10, Appl
3	7363	74.7	1385	4	US-09-827-998-16 Sequence 16, Appl
4	1709	17.3	717	4	US-09-949-016-9436 Sequence 9436, Ap
5	336.5	3.4	3594	4	US-09-911-842A-4 Sequence 4, Appli
6	330.5	3.4	3571	4	US-09-911-842A-2 Sequence 2, Appli
7	292.5	3.0	2489	4	US-09-911-842A-5 Sequence 5, Appli
8	287.5	2.9	1847	6	5256642-10 Patent No. 5472939
9	287.5	2.9	1847	6	5472939-10 Patent No. 5256642
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12	287.5	2.9	2039	6	5256642-2 Patent No. 5256642
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14	287.5	2.9	2039	6	5256642-2 Patent No. 5256642
15	287.5	2.9	2039	6	5472939-2 Patent No. 5472939
16	287	2.9	1947	4	US-09-612-314A-52 Sequence 52, Appl
17	283	2.9	1466	6	5256642-6 Patent No. 5256642
18	283	2.9	1466	6	5472939-6 Patent No. 5472939
19	283	2.9	1466	6	5256642-6 Patent No. 5256642
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21	283	2.9	1537	6	5256642-5 Patent No. 5256642
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23	283	2.9	1537	6	5256642-5 Patent No. 5256642
24	283	2.9	1537	6	5472939-5 Patent No. 5472939
25	253.5	2.6	849	4	US-09-949-016-10271 Sequence 10271, A
26	249	2.5	830	1	US-08-110-158-4 Sequence 4, Appli
27	249	2.5	1033	4	US-09-834-309-1 Sequence 1, Appli

28	243.5	2.5	830	5	PCT-US91-05059-2	Sequence 2, Appli
29	236	2.4	577	2	US-08-435-149-3	Sequence 3, Appli
30	236	2.4	611	3	US-09-475-460A-32	Sequence 32, Appl
31	236	2.4	611	4	US-09-748-061A-32	Sequence 32, Appl
32	235.5	2.4	574	6	5378464-3	Patent No. 5378464
33	235.5	2.4	574	6	5378464-3	Patent No. 5378464
34	235	2.4	830	6	5378464-2	Patent No. 5378464
35	235	2.4	830	6	5378464-2	Patent No. 5378464
36	230.5	2.3	610	1	US-08-365-470-3	Sequence 3, Appli
37	230.5	2.3	610	3	US-09-209-668-19	Sequence 19, Appl
38	230.5	2.3	610	3	US-09-009-490A-89	Sequence 89, Appl
39	230.5	2.3	610	4	US-09-949-016-5942	Sequence 5942, Ap
40	230.5	2.3	610	6	5217870-2	Patent No. 5217870
41	230.5	2.3	610	6	5217870-2	Patent No. 5217870
42	230.5	2.3	647	4	US-09-949-016-10272	Sequence 10272, A
43	225	2.3	1394	4	US-09-949-016-5971	Sequence 5971, Ap
44	225	2.3	1394	6	5177197-30	Patent No. 5177197
45	225	2.3	1394	6	5177197-30	Patent No. 5177197

ALIGNMENTS

RESULT 1
US-09-827-998-3
; Sequence 3, Application US/09827998
; Patent No. 6656700
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: MDHMRP-8
; CURRENT APPLICATION NUMBER: US/09/827,998
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6656700
; SEQ ID NO 3
; LENGTH: 1791
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-827-998-3

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; Sequence 10, Application US/09827998
; Patent No. 6656700
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: MDAMORF-8
; CURRENT FILING DATE: US/09/827,998
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6656700
; SEQ ID NO 10
; LENGTH: 1770
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-827-998-10

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Db 181 NEKPEPQKRWAKSRQRRQVWKRAEDGQDSGISSHFQWPWKHSLKGRVKKSPPEESN 240
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RESULT 3
US-09-827-998-16
; Sequence 16, Application US/09827998
; Patent No. 6656700
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: MDHMOF-8
; CURRENT APPLICATION NUMBER: US/09/827,998
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6656700
; SEQ ID NO 16
; LENGTH: 1385
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-827-998-16
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Query Match 74.7%; Score 7363; DB 4; Length 1385;
Best Local Similarity 77.0%; Pred. No. 0;
Matches 1379; Conservative 0; Mismatches 6; Indels 406; Gaps 1;

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QY	301	NPALIAGVFDNC	SHTVSDKGMALGIRSGKDKGRDARFFP	SLCTDRVKATILISHSR	Q	360																																																
Db	301	NPALIA-	-----	-----		306																																																
QY	361	PGTWTHVAATYDGRH	MALVYDGTQVASSLDQSGPLNSP	PMASCRSLLLGGDSSE	D	420																																																
Db	307	-----	-----	-----		306																																																
QY	421	GHLGTLVFWSTALP	QSHFQHSQHS	GEEATDVLTA	SFEPVNTWVPR	DEKYPRL	EV	480																																														
Db	307	-----	-----	-----				306																																														
QY	481	LQFEPEPEILSP	LPQPLCGQVCDN	VELISQYNGWPLR	GEKYIRQV	VNICDDEGL	NP	540																																														
Db	307	-----	-----	-----				306																																														
QY	541	IVSEEQIRLOHEAL	NEAFSRNYSWQLSV	HQVHNSTLRHR	VVLVNCEPSKI	GNDC	PEC	600																																														
Db	307	-----	-----	-----				306																																														
QY	601	EHPLTGYDGD	CRLQRCYSWNR	RDLCHVECN	NMLNDFDGD	CCDPQ	QVAVRKT	CFDP	660																																													
Db	307	-----	-----	-----					306																																													
QY	661	SPKRAYMSVKEL	KEALQINSTHFLNI	YFASSVREDLAGA	ATWPDKDAVTH	LGI	VLSPA	720																																														
Db	307	-----	-----	-----					314																																													
QY	721	YYGMPGHTDTMI	HEVGHVGLYHVF	EKVSERES	CNDPCKETVPS	ME	TGDL	CADTA	PTPKS	780																																												
Db	315	YYGMPGHTDTMI	HEVGHVGLYHVF	EKVSERES	CNDPCKETVPS	ME	TGDL	CADTA	PTPKS	374																																												
QY	781	ELCREPEPTSD	TCGFTRPFGA	PFTN	MSYTDNCTDNFT	NOVARMA	HCYLDLVYQ	WTES	840																																													
Db	375	ELCREPEPTSD	TCGFTRPFGA	PFTN	MSYTDNCTDNFT	NOVARMA	HCYLDLVYQ	WTES	434																																													
QY	841	RKPTPIPIPP	MVIGQTNKSLTI	HWLPISGV	VYDRASGSL	CGACTEDGT	FRQYVHT	ASSR	900																																													
Db	435	RKPTPIPIPP	MVIGQTNKSLTI	HWLPISGV	VYDRASGSL	CGACTEDGT	FRQYVHT	ASSR	494																																													
QY	901	RVCDSG	YWTPEEAVGPR	VDQCEPSLQ	AMSPEVHL	YHNM	TVPC	TEGCS	LELL	FQHP	960																																											
Db	495	RVCDSG	YWTPEEAVGPR	VDQCEPSLQ	AMSPEVHL	YHNM	TVPC	TEGCS	LELL	FQHP	554																																											
QY	961	VOADTL	TLMTVSFF	MESSQVLF	DTIELLEN	KESVHL	GPLT	FC	DI	PLTIK	LHVD	GK	YS	GV	1020																																							
Db	555	VOADTL	TLMTVSFF	MESSQVLF	DTIELLEN	KESVHL	GPLT	FC	DI	PLTIK	LHVD	GK	YS	GV	614																																							
QY	1021	KVYTF	DERIEIDA	LALTSQ	PHSPLCSG	CRPVRYQVLR	DP	PR	ASGLPV	VV	VT	SHR	K	FT	VE	1080																																						
Db	615	KVYTF	DERIEIDA	LALTSQ	PHSPLCSG	CRPVRYQVLR	DP	PR	ASGLPV	VV	VT	SHR	K	FT	VE	674																																						
QY	1081	VTPGQ	MYQVLA	EAGGEL	GEASPL	LNHI	HGAPYCGD	KYSERL	GE	CD	DG	DL	VS	GD	CS	1140																																						
Db	675	VTPGQ	MYQVLA	EAGGEL	GEASPL	LNHI	HGAPYCGD	KYSERL	GE	CD	DG	DL	VS	GD	CS	734																																						
QY	1141	KVCELE	EEGFNCV	GEPSL	CYME	EGDICE	P	FER	KTSIV	DC	GI	YTP	K	G	YL	DQ	W	A	T	R	A	S	S	H	E	1200																												
Db	735	KVCELE	EEGFNCV	GEPSL	CYME	EGDICE	P	FER	KTSIV	DC	GI	YTP	K	G	YL	DQ	W	A	T	R	A	S	S	H	E	794																												
QY	1201	DKKCP	VS	LV	TGE	PHSL	ICTSY	HPDL	PNHR	PL	TGW	PC	V	A	S	E	N	E	T	Q	D	D	R	S	E	O	P	E	G	S	L	K	E	1260																				
Db	795	DKKCP	VS	LV	TGE	PHSL	ICTSY	HPDL	PNHR	PL	TGW	PC	V	A	S	E	N	E	T	Q	D	D	R	S	E	O	P	E	G	S	L	K	E	854																				
QY	1261	DEVM	LKVC	FN	R	GE	ARA	I	F	I	FL	T	D	G	L	V	P	G	E	H	Q	P	T	V	T	L	Y	L	D	V	R	G	S	N	H	S	L	G	T	Y	G	L	S	C	H	1320								
Db	855	DEVM	LKVC	FN	R	GE	ARA	I	F	I	FL	T	D	G	L	V	P	G	E	H	Q	P	T	V	T	L	Y	L	D	V	R	G	S	N	H	S	L	G	T	Y	G	L	S	C	H	914								
QY	1321	NPLI	IN	V	T	H	Q	N	V	L	F	H	N	T	S	V	L	N	F	S	S	P	R	V	G	I	S	A	V	A	L	R	T	S	S	R	I	G	L	S	A	P	S	N	C	I	S	E	D	E	G	N	H	1380
Db</																																																						

Db	975	QGSCTHRPCGKQDSCPSLLLDHADVNCSTSIGGLMKCATTCQRGFALQASSEQYTRLM	1034
QY	1441	QKEILLTCCSGHWDQNVSCLPVDCGVPDPSLVANYANFSCSEGTKFLKRCISICVPBAKLQ	1500
Db	1035	QKEILLTCCSGHWDQNVSCLPVDCGVPDPSLVANYANFSCSEGTKFLKRCISICVPBAKLQ	1094
QY	1501	GLSPMLTCLJEDGLWSLPEVYCKLECDAPRIILNANULLPHCLQDNHDVGITICKYECKPGY	1560
Db	1095	GLSPMLTCLJEDGLWSLPEVYCKLECDAPRIILNANULLPHCLQDNHDVGITICKYECKPGY	1154
QY	1561	YVAESAEGKVRNKLKIQCLEGGIWEQSCIPVYCEPRPVPFEGMYECTNGFSLDSQCVL	1620
Db	1155	YVAESAEGKVRNKLKIQCLEGGIWEQSCIPVYCEPRPVPFEGMYECTNGFSLDSQCVL	1214
QY	1621	NCNÖERKLPILCTKEGLMTQEFKLCENTLQEGCPRPSELNSVEYKCEÖGYIGAVCSPL	1680
Db	1215	NCNÖERKLPILCTKEGLMTQEFKLCENTLQEGCPRPSELNSVEYKCEÖGYIGAVCSPL	1274
QY	1681	CVIPPSDPVMLPENITADTLEHMEPVKVQSIYCTGRKQWHPDPVLVHCIOGCEPFOADG	1740
Db	1275	CVIPPSDPVMLPENITADTLEHMEPVKVQSIYCTGRKQWHPDPVLVHCIOGCEPFOADG	1334
QY	1741	WCDTINNRAYCHYDGDCCSSTLSSKKVIPPAA DCDDLECTCRDPKAEENQ 1791	
Db	1335	WCDTINNRAYCHYDGDCCSSTLSSKKVIPPAA DCDDLECTCRDPKAEENQ 1385	

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RESULT 4
US-09-949-016-9436
; Sequence 9436, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9436
; LENGTH: 717
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9436

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	Query Match	17.3%;	Score 1709;	DB 4;	Length 717;	
	Best Local Similarity	43.0%;	Pred. No. 1.7e-139;			
	Matches 310;	Conservative 140;	Mismatches 237;	Indels 34;	Gaps 14;	
QY	1084 GOMYOYLAEAGGELGEASPLNHIHGAPYGCDKVSERLGECCDDGLVSGDCSKVC	1143				
Db	6 GSVYQYWVITISGTRESESPPAVTYIHGSYGCGDGI IQKDQGEQCDDMNKINGDGCSLFC	65				
QY	1144 ELEEGFNCVGEPSLCYMYEGDGI CEPPERKTSIVDCGI YTPKGYLDQWATRAYSSHEDKK	1203				
Db	66 RQEVSFNCIDEPSRCYFHDDGVCEEFEQKTSIKDCGVYTPQGFLDQWASNASVSHQD-Q	124				
QY	1204 KCPVSLVTGER-HSLICTSYHPDLPNHRPLTGWFPCVASENETODDRSEQEESLKKEDE	1262				
Db	125 QCPGWVIIGQPAAISOYCRTKVIDLSEGISQHAWYFCTIISYPYSQ-----LAQT	173				
QY	1263 VWLVCFNRPGEARAIFILTTDGLVPGEHQPTVTLILTVDVRGSMNSLTGYLSCOHNP	1322				
Db	174 FWLRAYFSQPMVAALAVIHLVLTDTGYTGDOKEFTISVOLLDTKDOSHDGLHVISCRNP	233				


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QY 1323 LIINVTTHQNVLFHHHTSVLLNFSSPRVGISAVALTSTSRIGLSAPENCISEDEGQNHG 1382
Db 234 LIIPVHDLQPFYHSQAVRVSFSSPLVAISGVALRSFDNFDVTLSSC-QRGETYSPE 292
QY 1383 QSCIHRCGKODSCPSLLLDHADVNCSTSI----GFLMKCAITCGREFALQASSGQYIR 1438
Db 293 QSCVHFACEKTD-CPELAVENA-YLNCSSSDRYHG--AQCTVSCRTGYVLQIRRDELI 347
QY 1439 PMQ--KEILLTSSGHHMDQNVSCLPVDCGVPDPBSLVNYANFSCSEGTFLKRCISICVPP 1496
Db 348 KSQTGPSVTVTCTEGKKNKQVACEPVDCSI PDHHQVYAASFSCPEGTTFGSQCSFQCRHP 407
QY 1497 AKLQGLSPWLTCLEDGLMSLPEVYCKLECDAPPIILNANLLPHCLQDNHVDGTICKYEC 1556
Db 408 AOLKGNNSLLTCMEDGLMSFPEALCELMCLAPPPVNPADLQIARCRNKHKVGSFCKYKC 467
QY 1557 KPGYVAESAEGKVRNKLKIQLLEGIGWEGSCIPVCEPFPVFEGRMYECTNGFSLDS 1616
Db 468 KPGYHVPGSSR-KSKKRAFKTQCTQDGSWQEGACVPVTCDDPPPKFHLGYQCTNGFQFNS 526
QY 1617 QCVLNC-----NQERKLPILCTKEGLWTQEFKLCENLQEGCPRPPELSNS-VEYKCEQG 1670
Db 527 ECRKICEDSDASQGLGSNVIHCRKDGTMWNGSFHVQEMQGC-SVNEELNSNLKLQCCPDG 585
QY 1671 YGIGAVCSPLCVIPSPDPVMLPENITADTLEHMEPVKVQISVCTGRQWHPDPVLVHCI 1730
Db 586 YAIQSECATSCLDHNSSEIILPMNVTVRDI PHWLNPTRVERVCTAGLKWYPHPALIHCV 645
QY 1731 QSCEPFOADGWCDDTINNRAVCHYDGDCCSSTLSSKKVIPFAADCDLD-ECTCRDPKAE 1789
Db 646 KGCEPFMGDNYCDALNNRAFCNVDGDCCTSTYTKKVT PPFMSCDLQGDACARDPOAGE 705
QY 1790 N 1790
Db 706 H 706

RESULT 5
US-09-911-842A-4
; Sequence 4, Application US/09911842A
; Patent No. 6656707
; GENERAL INFORMATION:
; APPLICANT: Amgen Inc.
; TITLE OF INVENTION: C3B/C4B COMPLEMENT RECEPTOR-LIKE MOLECULES AND USES THEREOF
; FILE REFERENCE: 01017/37592
; CURRENT APPLICATION NUMBER: US/09/911,842A
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: US 60/222,438
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 3594
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1757)..()
; OTHER INFORMATION: Xaa = any or unknown amino acid
US-09-911-842A-4

Query Match 3.4%; Score 336.5; DB 4; Length 3594;
Best Local Similarity 19.2%; Pred. No. 1.1e-18;
Matches 343; Conservative 189; Mismatches 626; Indels 629; Gaps 99;

QY 286 AFTVEAWVKPEGQNNPALIAGVF---DNCSHTVSDKGWALGIRSGDKGKRDAFPFS 341
Db 1476 AVTCAFMKSSDVINGTPISYALEDDKDNFTLLTDYNGWVLYV-NGKEK----- 1524
QY 342 LCTDRVKKATILISHSRYPGTWTHVAATYD--GRHMAIYD-----GTQVASSLDQ 391
Db 1525 -----ITNCPSVNDGIWHHIALITWTSIGAMRVYIDGELSDGCTGLSIGKAIPG 1573

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QY	392	SGBLNSPFMASCRLLLGDDSSDGHYFR-----GHLCGLVFWSTAL-POSHFOSSQH	444
Db	1574	GG-----ALVLCGEQDKKGGEGFNPAESFVGSISQNLMDYVLSPOQVXLLAS--	1620
QY	445	SSGEEATDVLVTASFEPVNTWVPERDEKYRLVY-----LOGFEPEPELLS	492
Db	1621	SCPEELSRGNVLA-----WPDFLSGITGKVAVDSSSMFCSDCPSLGSAVPHLRPAS	1671
QY	493	PLQPPLCGQTV---CD-NVELIS--QY---NGYV---PLRGEKVIROYVNICDEGLNP	540
Db	1672	GNRKP--GSKVSLFCDPGFQWGNPNVOYCLNOGQWTOPLPHCERIR-----C---GLPP	1720
QY	541	IV-----SEEQIRLQHEALNEAFSRY-----NISQLSVHQVHNSTLRHRVVL	583
Db	1721	ALENGFYSAEDFHAGSTVYTQCTSGYLLGDSRMFCXNGSWN-----	1763
QY	584	VNCEPSKIGNDCHDPECEHPLTGYDGDCLRGRCYSWNRDGLCHVECNMNLNDFDGD	643
Db	1764	-GISPSCLDVDECAV-----GSDCSEHASCLNTN---GSYVCSNPPYTG-DGNV	1808
QY	644	CCDPQVADVTKTCFDPDSPKRAYMSVKELKEALQNLSTHFLNIYFASSVREDLAGAA---	700
Db	1809	CAEP-----VKCKAPENPENGRSS---GEIYYVGTIA---VTFSCDEGHVLGVSTIT	1854
QY	701	---TWPMWK-----DAVTHLGGIVLSPAYYGMPGHTDTHIEVGHVLGLYHVFKVS---	749
Db	1855	CLETGEWDRLRPSCBAIS--CGVPVPENGVDGSAFTYGSKV-----VYRCDKGYTLJG	1907
QY	750	-ERESCNDPCKETVPSMEGDLCADTAPTPKSELCREPEPTSD---TCGFTRFPGABPT	804
Db	1908	DEESAC-----LASGS-WSHSSPVCGLVKCSQPEDINNGKYLISGLT-----	1948
QY	805	NYMSYTDNCTDNFTPNQVARMHCYLDLVYQOWTESRKPTPIPIPMVIGQ--TNKSLTI	862
Db	1949	-YLISAYSCENGSYLQGSLLLECTASGSWDRAPPCQLVSCGEPPIVKDAVITGSNFTF	2007
QY	863	HMLPPISGVVYDRASGLCAGCTEDGTFRQYVHTASSRRVCDSSGYWTPPE---AVG--	916
Db	2008	-----GNTVAVYCKEG-----YTLGABDTIICQANGKWNSSNHQCLAVSCD	2048
QY	917	-PPVDQPCERPSLQAWSPEVHLHYMMNTVPCPTEGSLLELFOHPVQADTLTLMVTSFEM	975
Db	2049	EPNVNDA-----SPET-----AHLRFGDT-----AFYYC	2073
QY	976	ESSQVLFDTTEILLNKESVHLGP-----LDTFCDIPLTIKLHVDGKVSQVKV----	1022
Db	2074	ADGYSLADNSQLICNAQGNWVPVPAQAVPRCIAHCEKPPSVSYSILESVAKAKFAAGSV	2133
QY	1023	-----YTFDERIEIDALLTSQPHSPLCSGCRPVRYQLRDP-FAAGLP-----	1066
Db	2134	VSFKCMEGFVLNTSAKIECLRGGEWSPSPLSVQCIPIVR---CGEPPSIANGVPSGTNYSF	2190
QY	1067	--VVVTHSHRKFTDVEVTPGQMY--QYQVLAEGAGELGEASPLNHI--HGAPYCGDGK	1119
Db	2191	GAVVAVYCHKGF-----YIKGEKKSSTCEATGQMSKPTPTCHPVSCNEPRKYENG	2240
QY	1120	VSERLGE-----ECDDGDLVSGD-----GCSK-----	1141
Db	2241	LEHTTGRTFESEARPOCNPGYKAAGSPVFVQCQANRHHWSADAPLSTPLNCGKPPRIQNGF	2300
QY	1142	-----VCEIEEGFNCVGEPSLCMYVEGDGICEPFEKRTSIYDCGIYTPKGY	1187
Db	2301	LKGESFEVGSKVQFVC--NEGVELVGDNSWTCQSGKWSKKP--SPKCVPTXCAEPRL	2355
QY	1188	LDQWATRAYSSHEDKKCPVSLVT---GEPHSLICTSYHPDLPNHRPLTGWFP-----C	1238
Db	2356	ENQLVLKEIASE-----VGMVTISCKEGHALQGPSVLKCLPSGQ-WNGSFPICKMVL	2407
QY	1239	VASENETQDDRSQEPESLKKEDVWLKVCFNRPGEARAFI-----FLTTCGLVGEHQ	1293
Db	2408	-----PSPP-----IPFGVPASSGALHFGSTVKYLCVDGFF--LRG	2442
QY	1294	QPTVTLYLTLTVRGSNHSIGTYGLSCOHNPLIIN-VTHQONVLFHHTTVSLNLFSSPRVGI	1352

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Db 2443 SPTI-LCQADSTWSSPLPECVVECPQPEELIINGIIVHQLAYLSTLTLYCKPGFELVG- 2500
Qy 1353 SAVAL--RTSSRIG---LSAPNSCISEDEGQNHQ-----GQ----- 1383
Db 2501 NATTLGGENGQWLGGKPMCKPIECPEPKIELNGQFSSVSFOYGQTITYFCURGRFLEGP 2560
Qy 1384 --SCIHRPCGKODSCPSLLLDHADVNCTSIGP---GLMCA-----ITCQGFAL 1429
Db 2561 SLTCLF--TGDMWDP----PSCDAIHCSDPQPIENGFEVAGADRYGAMIIYSCFPGFQV 2614
Qy 1430 QASSGQYIRPMQKEIILLTCSSGHW-DQNVSCLPVDCGVPD----- 1468
Db 2615 LGHAMQ-----TCESGWSSSSPTCVPIDCGLPRHIDFGDCTKVRDQGHFDQE 2663
Qy 1469 -----PSLVNYANFSCSEGTKEFL--KRCSISCVPRAKLQGLSPWLT 1507
Db 2664 DDMMEVPLYLAHPQHLBATAKALENTKESPAASHFLYGTMVSYSCPEGYELGI-PVLI 2722
Qy 1508 CLEDGLMSLPEVYC-KLECDAPRIILNANLLPHCLQDNHDVGTICKYECKRGYVAESA 1566
Db 2723 CQEDGTWNGTAPSCISIECDLPVAPENGFL--HFTQTT--MGSAAQYSCKPGHILEGSH 2777
Qy 1567 EGKVRNKLKIQCLEGGIWEQGS--CIPVVCPEPPPVFEG-----MYECTN 1610
Db 2778 -----LRL-CLQNKQW-SGTVPRCFAISCSKPNPLMNGSIKDDYSYLGVLYYECD 2827
Qy 1611 GFSLDSQCVLNCSNOREKLPILCTKEGLWTQEFKLCENLQGECPPPPSLEL----- 1661
Db 2828 GYILNGSKKRTCQENRD-----WDGHEPMC--IPVDCGSPVPPTNGRVKGEEYT 2874
Qy 1662 ---SVEYKCEQGY-----GIGAVCSPL-CVIPSPDPVMLPENITADTL 1700
Db 2875 FQKEITYSCREGFILEGARSRICLTNGSWSGATPSCMPVRCPAPQVP-----NGVADGL 2929
Qy 1701 E-----HNMPEVKVQS---IVCTGRQWHPDPVLVHCIOQCEP 1735
Db 2930 DYGFKEVAFHCLGEGVYLQGAPLRTCQNGTWDAE-----VPVCKP 2970

RESULT 6
US-09-911-842A-2
; Sequence 2, Application US/09911842A
; Patent No. 6656707
; GENERAL INFORMATION:
; APPLICANT: Amgen Inc.
; TITLE OF INVENTION: C3B/C4B COMPLEMENT RECEPTOR-LIKE MOLECULES AND USES THEREOF
; FILE REFERENCE: 01017/37592
; CURRENT APPLICATION NUMBER: US/09/911,842A
; PRIOR FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: US 60/222,438
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 3571
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-911-842A-2

Query Match 3.4%; Score 330.5; DB 4; Length 3571;
Best Local Similarity 19.9%; Pred. No. 3.6e-18;
Matches 353; Conservative 207; Mismatches 612; Indels 603; Gaps 106;
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Db 1547 --GGGALVLCGEQDKKGEFGSPASFSVGSISQLNLMDYVLSFQ---QVXSLATSCPEELS 1601
Qy 453 DLVLTAFFEVNTEWVFR-----DEK-----YPRL-----EVLQ----- 482
Db 1602 KGNVLA-----WPDFLSGIVGKVIDSKSIFCSDCPRLGGSVPHLRTASEDLKPGSK 1653
Qy 483 -----GF-----EPEP---EILSPLOPPL-----CGQTV- 503
Db 1654 VNLFCDPGFQLVGNPVQYCLNQGQWTPQLPHCERISCGVPPPLENGFHSADDFYAGSTVT 1713
Qy 504 --CDNVELISQYNGYWPRLRGEKVIRQYVNI CDDEGLNPVSEEQIRLQHEALNEAFSRY 561
Db 1714 YQCN-----NGYLLGDSRM-----FCTDNGSMNGVSPSCLDYDECAVGSDCSEH 1758
Qy 562 NISWQLSVHQVHNSTLRRHVLVNCEPSKIGN-DHC-DP-ECE--HPLTGYDGGDCRLQ 615
Db 1759 -----ASCLNVDS-----YICSCVPPTYTGDGKNCAEPIKCKAPGNENGHSSEIYTV 1807
Qy 616 G-----RCYSNRDGLCHVEC-----NNMLNDFDDGCCDPQVADVRKTCFDPDSPKR 664
Db 1808 GAEVTFSCQEGQLMGVTKITCLSEGENMHLI-----PYCKAV--SCGKPAIPEN 1855
Qy 665 AYMSVKELKEALQNLNTHFLNITYFASSVREDLAGAATWPDWDKDAVTHLGGIVLSPAYYGM 724
Db 1856 G--CIEELAFTFGSKVTYRCNKGYTLACDKESSCLANSSWSHSP-----VCEPVKCS 1907
Qy 725 PGHTDTMHEVGHVGLYHVFKVSERESNDPCKETVPMSMETGDLCADTA-----P 776
Db 1908 PENINN-----GKY-ILSLGLTYLSTASYSC-DTGYSLQGPSIIECTASGIWDRAP 1956
Qy 777 TPKSELCREPEPSTDTC---GTFRPGAFPNTYMSYTDNCTDNFTPNQVARMHCYLDL 832
Db 1957 ACHLVFCGEPAIKDAVITGNFT-----FRNTVYTT---CKEGYTLAGLDTIECLAD- 2006
Qy 833 VYQOWTESRK---PTPIPIPMVIGQTNKSLTIHMLPRISGVVYDRAGSLGCACTEDGT 889
Db 2007 --GKMSRSDQQLAVSCDEBPVIDHASPE--TAH-----RLFGDIAFYCSDG- 2050
Qy 890 FRQYVHTASSRRVCDSSGYWTPBEAVGPPD-VDQPCB--PSLQAWSPEVHLYHMMNTVPC 946
Db 2051 ---YSLADNSQLCNAQCKWVPREGQDMPRCLAHFCEKPPSVS-----YSI----- 2093
Qy 947 PTEGCSLELFPQHPVQADTLTLWVTSFPMSSQVLFDTIELLE-----NKESVHLGPL 999
Db 2094 ----LESVSAKFAAGS---VVSFKMEGFVL-NTSAKIECMRGQGNPSPMSIOCI 2142
Qy 1000 DTFCDIPLTIKLVHDGKVSQVVKYTFDERI-----EIDALLTSQPHSPLCS 1046
Db 2143 PVRGGEPPSI--MNGYASGSN-YSFGAMAVAYSCNKGFYIKGEKKSITEATGQWSSPIPT 2198
Qy 1047 GCRPVRYQVLRDPPFASGLPVVVTSHRKFTDVEVTPGQMYQYQVILAAGELGEASPL 1106
Db 2199 -CHPV-----SCGEPKVENGF-----LEHTTGRIFESEVRQCNPGYKSVGSPV 2242
Qy 1107 -----NHIHG-APY-----CG-----DGKVSERLGEBCDDGLVSGDGS 1140
Db 2243 FVCQANRHMHSBPLMVCVPLDCGKPPPIQNGFMKGENFEVGSKVQFFCNEGVELVGD-S 2301
Qy 1141 KVCLEBEGFNCVGEPSLCYMEBGDICEPFE-----CMRAKCEPPLLENQVLKELTTEVGVTFSCKE 2351
Db 2302 WTCQKSGKMNKSNPK-----CMRAKCEPPLLENQVLKELTTEVGVTFSCKE 2351
Qy 1186 GYL-----DQWATRAYSSHEDKKCPVSLVTEGPHSLICTSYHDDLPN---HR 1230
Db 2352 GHVLQGPSVLKCLPSQW-----NDSFPVCKIVLCTPP---LISFGVPIFPSSALHF 2400
Qy 1231 PLTGMFPCTVAS---ENETQDRSEQEPEGLKEDEVW--LKVCFNRPGEARAFIFLFT 1283
Db 2401 GSTVKYSCVGFPLRGNST-----TLQCPDGTWSSPLPEC----- 2435
Qy 1284 TDGLVPGEHQOP-TVTLVYLTDVVRGSNHSIGTYGLSCQHN-PLIINVT---HQONVLFHH 1337
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Db 2436 ---VPVECPQPEEIPNGIIDVOGLAY-LSTAlyTCKPGFELVGNtTLtCGENgHWLGK 2490

Qy 1338 TTSVLNfSSPRVcISAVAlRTSSRIGLSAPNSCISEDEGQNHOGS---CIHRPCGKOD 1394

Db 2491 PTCKAIECLKPKELNGKFSYTDLHYGQYVYSC---NRGFRLEGPSALTCLC--TGDD 2545

Qy 1395 -SCPSLLDHDADVNCSTISGP---GLMKCA-----ITCQRFALQASSGQYIRPMQ 1441

Db 2546 VDAPS-----CNAIHCDSPQPIENGFEVAGADYSYGAIIYSCFPGFQVAGHAMQ----- 2594

Qy 1442 KEILLTCSGSHWDQNV-SCLPVDGVP-----DPSLVNY----- 1474

Db 2595 -----TCESGSHSSSIPTCMPIDCGLPPIHDGDTKLKDDQGYFEQEDDMEVVPYVTPH 2649

Qy 1475 -----ANPSCSEGTK-----FL-KRCSISCVPPAKLQGLSPWLTCLDGLMSLP 1517

Db 2650 PPHYLGAVAKTMENTKESPATHSSNfLYGTWVSYTCNPGYELLG-NPVLICQEDGTWNGS 2708

Qy 1518 ELYC-KLECDAPPIILNANLLPHCLQDNHDVGTICKYECKPGYVVAESAGKVRNKLK 1576

Db 2709 APSCISIECDLPTAPENGFLRTET-----SMGSAVQYSCKPGHILVGS-----LR 2755

Qy 1577 IOCLEGGIWEQGS--CIPVCEPPRPVFEQ-----MYECTNGFSLDSQCVLN 1621

Db 2756 L-CLENRKMGSGASPRCEAISCKKPNPVNMNGSIGSNYTYLSTLYECDEGY-----VLN 2808

Qy 1622 CNGEREKPLICTKEGLWTQEFKLCENLQEGCPRPPSELN-----SVEYKCEQ 1669

Db 2809 GTERR-----TCQDDKNWDEDEPIC--IPVDCSSPPVASANGQVRGDEYTFQKEIETTCNE 2861

Qy 1670 GY-----GIGAVCSPL-CVIPSDFVMLPENITADTLEHMEPVK--- 1708

Db 2862 GFLLEGARSVCLANGSWSGATPDCVPRCATPP---QLANGVTEGLDYGFMKEVTFHC 2917

Qy 1709 -----VQSIvCTGRQWHPDPVLVHCIOQCEP 1735

Db 2918 HEGYILHGAPKLTQOSDGNWDAB-----IPLCKP 2946

RESULT 7

US-09-911-842A-5

; Sequence 5, Application US/09911842A

; Patent No. 6656707

; GENERAL INFORMATION:

; APPLICANT: Amgen Inc.

; TITLE OF INVENTION: C3B/C4B COMPLEMENT RECEPTOR-LIKE MOLECULES AND USES THEREOF

; FILE REFERENCE: 01017/37592

; CURRENT APPLICATION NUMBER: US/09/911,842A

; CURRENT FILING DATE: 2001-07-24

; PRIOR APPLICATION NUMBER: US 60/222,438

; PRIOR FILING DATE: 2000-08-01

; NUMBER OF SEQ ID NOS: 7

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 5

; LENGTH: 2489

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-911-842A-5

Query Match 3.0%; Score 292.5; DB 4; Length 2489;

Best Local Similarity 19.1%; Pred. No. 4e-15;

Matches 390; Conservative 211; Mismatches 691; Indels 745; Gaps 109;

Qy 76 GNYLRPVYGEQEIHTGRSKPDTEGNVSLVPRDLTENPAGLRGAVEEPAPWGDSP 135

Db 434 GKPLLEVFPFG-KAVNYTCDPHRD-RGTSPDLI-----GESTIR-CTSDPQNGVWSSPA 484

Qy 136 GQSELGD---DDAYLGNQSKESLGEAGIQKSAMATTTTA---IFTTLN-EKPEP 187

Db 485 PRCGILGHCAQPDHFL-----FAKLKTQTNASDPFIGTSLKYECRPEY 527

Qy 188 QRRGWASRQRQVWKRAEDGGGSGTSSHFQWPWKHSLKHRVKKSPPEESN----- 240

Db 528 YGRPFSITCLDNLVWSS-----PKDVCKRKSKCTPPDPVNGMVHVIT 569

Qy 241 --QNGEGSYREAETENSQVG--LPILYFSGRRERLLRPEVLAIPREAFVTEAWKPE 296

Db 570 DIQVGSRIYN-SCTGHRLLIGHSSAECILSGNAAHWSTKPRICQRIPCGL----- 618

Qy 297 GGQNNPAIAGVFDNCSTHTVSDKGWALGIRSGDKGRDARFFFSICTDRVKKATILISH 356

Db 619 ----PPTIANGFIISTRENPHYGSVVTYRCNPGSGGRKV--FEL---VGEPSIYCTS 667

Qy 357 SRYQPGTWTHVA-----ATYDGRHMAlyVDTQVASSLDQ-----SGP-- 394

Db 668 NDDQVGIWSPAPQCIIPNKCTPPNVENGILVSDNRSLFSLNEVEFRQCQPGFVWKGP 727

Qy 395 ----LN--SPFMASCRSL-----LLGSD-----SSEDGHYFRGLG 424

Db 728 VKQALNKWEPELPSCSRVCQPPPDVLHAERTQRDKNFSPGQEVFYSCPEGYDLRGAAS 787

Qy 425 TLVF---WSTALPQSHFQHSQHSNGEAEATDVLVTASFEPVNTEW---VPRDEKYPR 477

Db 788 MRCTPQGDWSPAPAB-----TCEVKSQCDFFNGQLNGRVLPVNLQLGAKYDFVCDDEG 841

Qy 478 LE-----VLOGFE-----PEPEIL-----SPLOPPLCQOTV---CD 505

Db 842 LKSSASAYCLAGMESLWNSVPCVCEQIPCPSPVPIPNGRHTGKPLFVPPFGKTVNYTCD 901

Qy 506 -----NVELIS-----QYNGVPLRGEKVIRYQVNICD--DEGLNPIVSEBQ 546

Db 902 PHPDRGTSFDLIGESTIRCTSDPQNGVW---SSPAPRCGILGHCAQPDHFLFAKLKTQT 958

Qy 547 -----IRIQHEALNEAFSR-----YNISWQL-----SVHQV 572

Db 959 NASDFPIGTSIKYECRPEYYGRPFSITCLDNLVWSSPKDVCKRKSKCTPPDPVNGMVHV 1018

Qy 573 HNSTLRHRVVLVNCERPSKIGNDHCDPECEHPLTGYDGDCLQGRCVSNRRDGLC-HVE 631

Db 1019 TDIOVGSRI-----NYSC--TTGHRLLIGHSSAECILSGNAAHWSTKPRICQRI 1065

Qy 632 CNNMLNDFDDGCCDQVADVRAKTCFDPDPSPKAYMSVKELKEALQNLSTHFLNIYFAS 691

Db 1066 CG-----LPPTIA-----NGDFIST 1080

Qy 692 VREDLAGATWPMWDKAVTHLGGIVLSPAYYGMPGHTDTMIHVGHVGLY-----H 743

Db 1081 NRENF-----HYGSVV---TYRCNPGSGGRKFELVGEPSIYCTSNDQVG 1123

Qy 744 VFKGVSEBSGNDPCKETVPSPMETGICADTAFT-----PKSELGR 784

Db 1124 IWSGPAPQ--CIIPNKCTPPNVENGILVSDNRSLFSLNEVEFRQCQGFVWKGPRAVKCQ 1181

Qy 785 ---EPEPTSDTCGTRFGAPFTNVMSYTDNCTDNFTPNQVARNHCYLDLVYQWTESR 841

Db 1182 ALNKMEPELPSCSRVCQPPPDVLHAERTQRD-KDNFSPGQEVFYSC----- 1226

Qy 842 KPTPIPRPMVIGQTNKSLTIHMLPPISGVVYD-RASGLCGACTEDGTFRQVHTASSR 900

Db 1227 EPG-----YDLRGAASM--RCTPQGDWSPAPFTCEVK 1256

Qy 901 RVCDSGTYWTPEAVGPPD-----VDQCEPSLQAWSPEVHLYHNMNTVPCPTEGCSLE 954

Db 1257 SCDDFMGQLNGRVLPVNLQLGAKYDFVCDDEGQ-----LKSSA- 1297

Qy 955 LLFQHPVQADTLTLMVTSFFWESSQVLFDEILLENKESVHLG-PLDTF-----CD 1004

Db 1298 ---SYCVLAGMESLWNSVVP-CEQIFCPSPVPIPNGR--HTGKPLLEVFPFGKAVNYTCD 1351

Qy 1005 IPLTIKLHYDGKVSQVKVYTFDERIEIDALLTSOPH-----SPL-----CSGCRP 1050

Db 1352 -----PHPDRTS-----FD-LIGESTIRCTSDPQNGVWSPAPRCGILGHCAQPDH 1398

Qy 1051 VRYQVLRDPPFAAGLPVVVTHSHRKFTDVEVTPGQMYQYQVLAEAG-----ELGE 1101

Db 1399 FLFAKLKTQTNASDFPI-----GTSIKYECRPEYYGRPFSITCLDNLVW 1442


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QY 1102 ASP-----PLNHTGAPY-CGDGKVSERLGECDGDLVSGDCSKVCELEBGF 1143
Db 1443 SSPKDVCKRKSCKTPPPDVNGMVHVTIDIQVGRINYSCTTGHRLIGHSSAE----- 1494
QY 1150 NCVGEPSLCYMEGDGICEPPEKRTSIVDCG-----ITYPKGYLDQMATRAYSSH 1199
Db 1495 -CILSGNTAHWSTKPPICQF-----IPCGLPPTIANGDFISTNRENFHYGSVVTYRCN 1546
QY 1200 EDKKKCPVSLVTGEPHSILCTSYPHD-----LENH-RPLTGWFPVASENETQ 1246
Db 1547 LGSRGKRVFELVGEF-SYCTSNDDQVGWISGPAQCIIFNKCTP-----PNVENGIIVS 1600
QY 1247 DDRSEQEGSLKKEDEWVLKVCFNRPGEARAFIFLTDTGLVGEHQPTVTLVLTVDVG 1306
Db 1601 DNRS---LFLSLNEVEVEFRCPGFVMKGPRR-----VKQCALNKMEPELPSCSR----- 1646
QY 1307 SNHSLGTGYGLSCQHNPLINVTYH---HQNVLFHHTTSVLNFPSSPRVGISAVALRTSRI 1363
Db 1647 -----CQPPPEILHGEHTPSHQD-----NFSF----- 1668
QY 1364 GLSAPSNCSISEDEGQNHQGSCHRPCKQ-----DSCPSSL--LDHADVYNC 1409
Db 1669 GQEVFYSC--EPGYDLRGAASLH--CTPQGDWSPPEARCAVKSDDFLGQLPHGRVLPF 1723
QY 1410 TSIGPLMKCAITCQGRFALQASSGOYIRPMQKEILLTSSGHWQONS-CLPVDGVPD 1468
Db 1724 LNLQLG-AKVSFVCDGEGFRLLKSSVSH-----CVLVGMSFLMNNSPVCEHIFCPNP- 1774
QY 1469 PSLVNYANFSCSEG-TKFLKRCISCVP-----PAKLOGISPLTCLD---GLMSLP 1517
Db 1775 PALNGRHTGTPSGDIPYKKEISYTCDPHPDRGMTFNLIgest-IRCTSDPHGNGWSSP 1833
QY 1518 EYVCKL-----ECDAPILINANLLPHCLQD-NHDVGTICKYECKPGYVVAESAEGKYR 1571
Db 1834 APRCELSVRAGHCKTPEQFPFASPTIP--INDFBFVGTSLNYECRPGYF----- 1881
QY 1572 NKLKIQCLEGGEIWE--QGSCLPVCEPPPPVEEGM-----YECTNGFSL- 1614
Db 1882 GKMFISICLENLWSSVEDNCRKSCGPPPEPFGMVHINTDTQGSTVNYSCNEGFRLI 1941
QY 1615 ---DSQCVLNCNQEREXPLILCTKEGLWTQEFKLCENLOGECPPPSELSN----- 1662
Db 1942 GSPSTTCLVSGNNV-----TWDKAPICEIT--SCEPPPTISNGDFYSNNRTS 1987
QY 1663 -----VEYKCEQGYG-----IGAVCSP-----LCVIPP-S 1686
Db 1988 FHNCTVVTYQCHTGPDGEQLFELVGRSICYTSKQDQGVWSSPPPRCISTNKCTAPEVE 2047
QY 1687 DPMVLPENIT---ADTLEHMEP---VKQSVCTGRBROWHPDVLVHCIOGCEP 1735
Db 2048 NAIRVPGNRSFFSLTEIVRFRCQGFVWVGSHTVQCQTNGRW--GPKLPHCSRVCP 2102

RESULT 8
5256642-10
;PATENT NO. 5256642
;APPLICANT: FEARON, DOUGLAS T.;KLICKSTEIN, LLOYD B.;WONG,
;WINNIE W.;CARSON, GERALD R.;CONCINO, MICHAEL F.;IP, STEPHEN
;H.;MAKRIDES, SAVVAS;MARSH, HENRY C. JR.
;TITLE OF INVENTION: COMPOSITIONS OF SOLUBLE COMPLEMENT
;RECEPTOR 1 (CRI) AND A THROMBOLYTIC AGENT, AND THE METHODS OF
;USE THEREOF
;NUMBER OF SEQUENCES: 30
;CURRENT APPLICATION DATA:
;APPLICATION NUMBER: US/08/588,128
;FILING DATE: 24-SEP-1990
;PRIOR APPLICATION DATA:
;APPLICATION NUMBER: 412,745
;FILING DATE: 26-SEP-1989
;APPLICATION NUMBER: 332,865
;FILING DATE: 03-APR-1989
;APPLICATION NUMBER: 176,532

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[illegible]

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Qy 1141 ---KVCE-----LE-----EGFNCVGEPSL-C 1158
Db 866 SSVPCEQIFCPSPDVIENGRHTGKPLEVFPFGKAVNYTCDPHPDRGTSFDLIGESTIRC 925
Qy 1159 YM-YEGDGI-----CE-----PFEKTSIVDCGIYT-----PKGYP-- 1187
Db 926 TSDPQNGVWSSPAPRCGILGHCOAPDHFLPAKLKTQTNASDPFICTSLKYECRPEYYGR 985
Qy 1188 -----LDQWATRAYSSHED---KKCC--PVSILVTGEPHSLI-----CTSYHPD 1225
Db 986 PFSITCLD--NLVWSSPKDVCKRKSCKTPPDVNGMVHITDIOVGSRIYSCITGH-R 1041
Qy 1226 LPNHR-----PLTWFPFC-----VASENETQDDRSEQEGSLKKEDEV 1263
Db 1042 LIGHSSAECILSGNTAHWSTKPRICQRIPCGLPPTIANGDFISTNRENFHYSV----- 1095
Qy 1264 WLKVCFNRPGEARAIF-----IFLTTDG-----LVPGEHQOPTVT--LYL 1301
Db 1096 -VTYRCNLGSRGRKVFELVGEPSIYCTSNDDQVIGWGPAPQCIIPNKCTPPNVENGILV 1154
Qy 1302 TDVRGSNHSL-----GTVGLSCQ-----HNPLINVTTHQNVLFH 1336
Db 1155 SD---NRSLSFSLNEVVDPRCQPGFVMKGPRAVKCOALNKWEPELPSCSRVCQPPPEILH 1210
Qy 1337 --HTSVLANFSSPRVIGISAVALTSSRIGISAPNSCISEDEGQNHQSGCIRPCGKQ- 1393
Db 1211 GEHTPSHODNFSR-----QGEVFYSC--EPGYDLRGASLH--CTPQG 1249
Qy 1394 -----DSCPSLL--LDHADVNCTSIGPGLMKCAITCQGFALQASSGQYIRPM 1440
Db 1250 DWSPEAPRCVAVKSCDDFLGQLPHGRVLFPLNQLG-AKVSFVCEGFRLLKSSVSH----- 1304
Qy 1441 QKEILLTSSGHWQNVS-CLPVDGVPDPPLVNYANFSCSEG-TKFLKRCISICVP-- 1495
Db 1305 ---CVLVGMRSLMNNNSVPVCEHIFCPRP-PALINGRHTGTPSGDIPIYKBEISYTCDPHPD 1360
Qy 1496 ---PAKLOGLSPWLTCLBD---GLWSLPEVYCKL-----ECDAPILNANLLPHCLQ 1543
Db 1361 RGMTFNLIGEST-IRCTSDPHGNGVWSSPAPRCCLSVRAGHCKTPEQFPFASPTIP--IN 1417
Qy 1544 D-NHDVGTICKYECKPGYVVAESAEGKVRNKLKIQCLEGIWE--QSGCIPVVCPEPPP 1600
Db 1418 DFEFPVGTSLNYECPGYP-----GKMFSISCLENLVWSSVEDNCRKRS CGPPE 1467
Qy 1601 VPEGM-----YECTNGFSL---DSQCVLNCNQEREKLPILCTKEGLMTQE 1642
Db 1468 PFNGMVHINTDQFGSTVNYSCNEGFRLLIGBSTTCLVSGNNV-----TWDXK 1515
Qy 1643 FKLCENLQGECPPPSELNS-----VEYKCEQGYG----- 1672
Db 1516 APICEIT--SCEPPTISNGDFYSNNRTSFHNGTVVTYQCHTGPDEQLFELVGERSIYC 1573
Qy 1673 -----IGAVCSP-----LCVTPP-SDPYMLPENIT---ADTLEHMMEP---VKV 1709
Db 1574 TSKDDQVGVWSSPPRCISTNKCTAPEVENAIRVGNRSFSLTEIIRRCQPGFVMVGS 1633
Qy 1710 QSIIVCTGRQWHPDPLVHICIOSCEP 1735
Db 1634 HTVQCQITNGRW--GPKLPHCSRVCQP 1657

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RESULT 9
5472939-10
; Patent No. 5472939
; APPLICANT: FEARON, DOUGLAS T.; KLICKSTEIN, LLOYD B.; WONG,
; WINNIE W.; CARSON, GERALD R.; CONCINO, MICHAEL F.; IP, STEPHEN
; H.; MAKRIDES, SAVVAS; MARSH, HENRY C. JR.
; TITLE OF INVENTION: METHOD OF TREATING COMPLEMENT
; MEDIATED DISORDERS
; NUMBER OF SEQUENCES: 30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/138,825
; FILING DATE: 19-OCT-1993

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 588,128
; FILING DATE: 24-SEP-1990
; APPLICATION NUMBER: 412,745
; FILING DATE: 26-SEP-1989
; APPLICATION NUMBER: 332,865
; FILING DATE: 03-APR-1989
; APPLICATION NUMBER: 176,532
; FILING DATE: 01-APR-1988
; SEQ ID NO:10:
; LENGTH: 2006
5472939-10

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Query Match 2.9%; Score 287.5; DB 6; Length 1847;
Best Local Similarity 19.1%; Pred. No. 6.6e-15;
Matches 349; Conservative 178; Mismatches 548; Indels 751; Gaps 105;

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Qy 454 LVLTASFEPVNT-EWVPF-----RDE-----KYPRLEVLOGFEPPEPILSLQPL-- 498
Db 39 LALPVAWGQCNABEPLPFARPTNLDEFEPPICTYLNYECRPGYSGRPFSIICLNKSVWT 98
Qy 499 -----CGQTVCDN-----VELISQYNGWYPLRGEKVI 525
Db 99 GAKDRCRKRCRNPPDPVNGMVHVIKIQFGSQIKYSCTKGYRLIGSSSATCIIISGDTVI 158
Qy 526 RYQVNVICD--DEGLNPIVSEEQIRLOHEALNEAF---SRYNISWQLSVHQVHNSTLRRH 580
Db 159 WDNETPICDRIPCGLPPTIT-----NGDFISTNRENFHY-----GS 194
Qy 581 VVLVNCPEPSKIGND-----HCDECEHPLTYGDG---DCRLQGRCYSWNRDGL 627
Db 195 VVTYRCNPGSGGRKVFELVGEPSIYCTSNDDQ--VGIWGPAPQCIIPNKCTPPNVENGI 252
Qy 628 CHVECNMM--LNDPDDGDC-----C-----DPQVADVKTCTFDPDSPKRAY 666
Db 253 LVSDNRSLFSLNEVEFRQCPVFMKGPRAVKCOALNKWEPELPSCSRVCQPPDVLHA- 311
Qy 667 MSVKELKEALQINSTHF--LNIYFASVREDLAAGATW-----PMDKDAVT----- 710
Db 312 -----ERTQRDKDNFSPGQEVFYSCEPGYDLRGAASMRCTPQGDWSPBAAPTECVKSCD 364
Qy 711 -----HLGGIYLSPAYYGMPGHTDTMHHYGHVLG--LYHVPKG-----VSRBR 752
Db 365 DFMGQLNGRYLFPVNLQLGAKVDFVCDEGFQLKSSASVYCVLAGMESLNNSSVPVCEQI 424
Qy 753 SCNDPCKEIVS-METG-----DLCAD----- 773
Db 425 FC--PSPRYIPNGRHTGKPLEVFPFGKAVNYTCDPHPDRGTSFDLIGESTIRCTSDPQGN 482
Qy 774 ---TAPTPKSEL---CREPE-----PTSDTCGFTRP---GAPFTNYMS 808
Db 483 GVVSSPAPRCGILGHCOAPDHFLPAKLKTQTNASDPFICTSLKYECRPEYYGRFVS--- 538
Qy 809 YTDNCTDNF---TPNQVARMHCYLDLVYQWTESRKPTPIPIPMV----- 852
Db 539 ---ITCLDNLVWSSPKDVCK-----RKSCKTPDPVNGMVHITDIOVGSRIIN 583
Qy 853 -----IGQTNKSLTI---HW--LPEI-----SGVVYDRASGSLCGACTEDGTFR 891
Db 584 YSCTTGHRILGHSSAECILSGNAHAWSTKPRICQRIPCGLPPTIANGDFI-----STNR 637
Qy 892 QYVHTAS--SRVCDSSGYWTPPEAVGPDPV-----DQPCERSLQAMS-PEVHLYHMM 942
Db 638 ENFHYGSVVTYRCNPGSGGRKVFELVGEPSIYCTSNDDQ-----VGIWGPAPQCIIPNK 692
Qy 943 TVPCPTGCSLELLFQHPVQADTTLMTVTSFMESSQVLFDTETILE---NKESVHLGPL 999
Db 693 CTPPNVE-----NGILVSDNRSLFSLNEVEFRQCPGFVMKGP 731
Qy 1000 DTFCDIPLTIKLHVDGKVGKVTPEDERIEIDALLTSQPHSLCSCG-CRPVRYQVLRD 1058
Db 732 RVKQCQ-----ALNKWEPELPSCSRVCQP----- 754

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QY 1059 PPFASGLPVVVTSHSRKFTDVE-VTPGOMYOQYVLAEGGEL-GEAS----PPLNIHIGA 1112
Db 755 -----PPDVLHAERTQDKDNFSPGOEVFYS--CEPGYDLRGAASMRCTPGDWSPPA 805
QY 1113 PYCG-----DGK---VSERLGEE---CDDGDLVSGDGS----- 1140
Db 806 PTCEVKSCDDFMGQLNGRVLFPVNLQLGAKVDFVCEGFLKGSSASACVLAMESLMN 865
QY 1141 ---KVCE-----LE-----EGFNCVGEPSL-C 1158
Db 866 SSVPCEQIFCPSPIVINGRHTGKPLEVFPFGKAVNYTCDPHPDRGTSFDLIGESTIRC 925
QY 1159 YM-YEGDI-----CE-----PFRKTSIVDCGIYT-----PKGY-- 1187
Db 926 TSDPQNGVWSSPAPRCGILGHCOAPDHLFAKLKTQTNASDPFIGTSLKYECRPEYYGR 985
QY 1188 -----LDQMATRAYSSHED--KKC--PVSIVTGEPSLI-----CTSYPHD 1225
Db 986 PFSITCLD--NLVWSSPKDVCKRKSCKTPPDVNGMVHVTIDIQVGSRIYNSCTTGH-R 1041
QY 1226 LPNHR-----PLTWFPFC-----VASENETQDRSEQPEGLKKEDEV 1263
Db 1042 LIGHSSAECILSGNTAHMSTKPRICQIRPCGLPPTIANGDFISTNRENFHYSV----- 1095
QY 1264 WLKVCFNRPGEARIF-----IFLTTDG-----LVPEHQOPTVT--LYL 1301
Db 1096 -VTYRCNLGSRGRKVFELVGEPSIYCTSNDDQVIGWSPAPQCIIPNKCTPPNVENGILV 1154
QY 1302 TDVRGSNHSI-----GTVGLSCQ-----HNPLIINTHHQNVLFH 1336
Db 1155 SD----NRSLFSLNEVVDRCQPGFVMKGPRAVRCQALNKMBELPSCSRVCQPPPEILH 1210
QY 1337 --HTTSVLNFSRPRVGISAVALRTSSRIGLSAPNSCISEDGQNHOGQSCITHPCGKQ- 1393
Db 1211 GEHTPSHQDNFSP-----GQEVFYS--EPGYDLRGAASLH--CTPQG 1249
QY 1394 -----DSCPSLI--LDHADVNVCTSIGPSLIMKCAITCQRGFALQASSGOYIRPM 1440
Db 1250 DWSPEAPRCAVKSCDDFLGQLPHGRVLFPLNLQIG-AKVSFVCEGFRLLKSSVSH--- 1304
QY 1441 QKEILLTSSGHWQNVS-CLPVDGCVPPDSPLVANFSCSEG-TKFLKCSISCVP-- 1495
Db 1305 ---CVLVGMRSLMNNVSVPVCEHIFCPNP-PALINGRHTGTPSGDIPYKEISYTCDPHPD 1360
QY 1496 ---PAKLOGLSPWLCTLED---GLWSLPEVYCKL-----ECDAPRIILNANLLPHCLQ 1543
Db 1361 RGMTFNLIGEST-IRCTSDPHNGVWSSPAPRCELIVRAGHCKTPEQFPFASPTIP--IN 1417
QY 1544 D-NHDVGTICKYECKPGYVVAESAEGKVRNKLKIQCLEGGIWE--QGSCTPVVCEPPRP 1600
Db 1418 DFEFPVGTSLNEYCRPGYF-----GKMFSISCIENLVWSSVEDNCRRKSCGPRPE 1467
QY 1601 VEEGM-----YECTNGFSL---DSQCVLNCNQEREKLPILCTKEGLWTQE 1642
Db 1468 PFNGMVHINTDTQFSGSTVNYSCNEGFRLLIGSPSTTCLVSGNNV-----TWDX 1515
QY 1643 FKLCENLQGECPPPPSLENS-----VEYKCEQGYG----- 1672
Db 1516 APICEI--SCPEPPTISNGDFYSNNRTSFPHNGTVVYQCHTGPDGEQLFELVGERSIYC 1573
QY 1673 -----IGAVCSP-----LCVIP-SDPVMLENIT---ADTLEHMMEP---VKV 1709
Db 1574 TSKDQVGVWSSPPRRCISTNKCTAPEVENAIVPGNRSFFSLTEIIRFCQPGFVMVGS 1633
QY 1710 QSIVCTGRQWHPDPVLVHCLQSCER 1735
Db 1634 HTVQCQTNGRW--GPKLPHCSRVCQP 1657

WINNIE W.,CARSON, GERALD R.,CONCINO, MICHAEL F.,IP, STEPHEN
;H.;MAKRIDES, SAVVAS;MARSH, HENRY C. JR.
; TITLE OF INVENTION: COMPOSITIONS OF SOLUBLE COMPLEMENT
; RECEPTOR 1 (CR1) AND A THROMBOLYTIC AGENT, AND THE METHODS OF
; USE THEREOF
; NUMBER OF SEQUENCES: 30
; CURRENT APPLICATION DATA:
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; FILING DATE: 24-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 412,745
; FILING DATE: 26-SEP-1989
; APPLICATION NUMBER: 332,865
; FILING DATE: 03-APR-1989
; APPLICATION NUMBER: 176,532
; FILING DATE: 01-APR-1988
; SEQ ID NO:10:
; LENGTH: 1847
5256642-10

Query Match 2.9%; Score 287.5; DB 6; Length 1847;
Best Local Similarity 19.1%; Pred. No.6.6e-15;
Matches 349; Conservative 178; Mismatches 548; Indels 751; Gaps 105;

QY 454 LVLTASFEPVNT-EWVPF-----RDE-----KYPRLEVLQGFEPPEILSPLQPL-- 498
Db 39 LALPVAMGQCNAPLEWL.PFARPTNLTDEFPPIGTLYLNEYCRPGSGRPFSSICLKNSVWT 98
QY 499 -----CGQTVCDN-----VELISQYNGYWPLRGEKVI 525
Db 99 GAKDRCRKRSGRNPDPVNGMVHVIKIQGSIKYSCTKGRYLGSSSATCIISGDTVI 158
QY 526 RYQVNVICD-DEGLNPVSEEQIRLQHEALNEAF--SRYNISWQLSVHQVNSTLRHR 580
Db 159 WDNETPICDRIPCGLPPTT-----NGDFISTNRENFHY-----GS 194
QY 581 VVLVNCPEPSKIGND-----HCDECEHPLTYDGG--DCRLQGRCYSWNRDGL 627
Db 195 VVTYRCNPGSGGRKVFELVGEPSIYCTSNDDQ--VGIMSGPAPQCIIPNKCTPPNVENGI 252
QY 628 CHVECNMM--LNDPDDGC-----C-----DPQVADVARKTCFDPDSPKRAY 666
Db 253 LVSDNRLSLPINEVEVEFRQPVFVMKGPRAVRCQALNKMBELPSCSRVCQPPDVLHA- 311
QY 667 MSVKELKEALQLNSTHF--LNIYFASVREDLAGATW-----PMDKDAVT----- 710
Db 312 -----ERTQDKDNFSPGOEVFYSCEBPGYDLRGAASMRCTPGDWSPAAPTCVKS CD 364
QY 711 -----HLGGIVLSPAYYGMPGHTDTMIHEGVHLG--LYHVFKG-----VSERE 752
Db 365 DFMGQLNGRVLFPVNLQLGAKVDFVCEGFLKGSSASACVLAMESLMNSSVPVCEQI 424
QY 753 SCNDPCKEIVPS-METG-----DLCAD----- 773
Db 425 FC--PSPPIVINGRHTGKPLEVFPFGKAVNYTCDPHPDRGTSFDLIGESTIRCTSDPQGN 482
QY 774 ---TAPTPKSEL--CREPE-----PTSDTCGFTRRP--GAPFTNYMS 808
Db 483 GWSSPAPRCGILGHCOAPDHLFAKLKTQTNASDFPIGTSLKYECRPEYYGRPFS----- 538
QY 809 YTDNCTDNF--TPNQVARMHCYLDIVYQQWTESRKPTPIPIPMV----- 852
Db 539 ---ITCLDNLVWSSPKDVCK-----RKSCKTPPDVNGMVHVTIDIQVGSRIIN 583
QY 853 -----IGQTNKSLTI-----HW--LPPI-----SGVVYDRAGSLGACTEDGTFR 891
Db 584 YSCTTGHRLIGHSSAECILSGNAAHMSTKPRICQIRPCGLPPTIANGDFI-----STNR 637
QY 892 QYVHTAS--SRVCDSSGYWTPEBAVGPPDV-----DQCEPSLQAMS-PEVHLYHMMN 942
Db 638 ENFHYSVVTYRCNPGSGGRKVFELVGEPSIYCTSNDDQ-----VGIMSGPAPQCIIPNK 692
QY 943 TVPCPTEGCSLELLFQHPVQADTLTLNVTSSFMESSQVLFDTLEILL--NKESVHLGRL 999

Db 693 CTRPNVE-----NGILVSDNRSLFSLNEVEFRCPGFVMMKGR 731
QY 1000 DTFCDIPLTIKLHVDKVGKVTYFDERIEIDALLTSQPHSPLCSG-CRPRVQVLRD 1058
Db 732 RVKCO-----ALNKWEPELPSCSRVCO----- 754
QY 1059 PPFASGLPVVTHSHRKFTDVE-VTPGOMYQVLAELAGEL-GEAS-----PLNHIHGA 1112
Db 755 -----PPDLHAERTQDKDNFSPGOEVFYS--CEPGYDLRGAASNRCTPQGDWSPA 805
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QY 1141 ---KVCE-----LE-----EGFNCVGEPSL-C 1158
Db 866 SSVPVCEQIFCPSPPVIPNGRHTGKPLEVFPFGKAVNYTCDPHPDRGTSFDLIGESTIRC 925
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QY 1188 -----LDQWATRAYSSHED--KCCC--EVSIVTGEPSHLI-----CTSYHPD 1225
Db 986 PFSITCLD---NLVWSSPKDVCRRKSKCKTPPDVNGMVHITDIQVSRINYSCTTGH-R 1041
QY 1226 LPNHR-----PLTGWPC-----VASENETQDDRSEQEGSLKEDDEV 1263
Db 1042 LIGHSSAECTLSGNTAHMSTKPCQRIPCGLPPTIANGDFISTNRENFHYSV----- 1095
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Db 1305 ---CVLVGMRSLMNNNSVPVCEHIFCPNP-PAILINGRHTGTPSGDIPYGEISYTCDPHPD 1360
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QY 1643 FKLCEINTQGECPPPSELNS-----VEYKCEQGYG----- 1672
Db 1516 APICEIT--SCEPPPTISNGDFYSNNRTSPHNGTVVTTYQCHTGPDGEQLFELVGERSIYC 1573
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Db 1634 HTVQCQTNGRW--GPKLPHCSRVCO 1657
RESULT 11
5472939-10
; Patent No. 5472939
; APPLICANT: FEARON, DOUGLAS T.; KLICKSTEIN, LLOYD B.; WONG,
; WINNIE W.; CARSON, GERALD R.; CONCINO, MICHAEL F.; IP, STEPHEN
; H.; MAKRIDES, SAVVAS; MARSH, HENRY C. JR.
; TITLE OF INVENTION: METHOD OF TREATING COMPLEMENT
; MEDIATED DISORDERS
; NUMBER OF SEQUENCES: 30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/138,825
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 588,128
; FILING DATE: 24-SEP-1990
; APPLICATION NUMBER: 412,745
; FILING DATE: 26-SEP-1989
; APPLICATION NUMBER: 332,865
; FILING DATE: 03-APR-1989
; APPLICATION NUMBER: 176,532
; FILING DATE: 01-APR-1988
; SEQ ID NO:10:
; LENGTH: 2006
5472939-10
Query Match 2.9%; Score 287.5; DB 6; Length 1847;
Best Local Similarity 19.1%; Pred. No. 6.6e-15;
Matches 349; Conservative 178; Mismatches 548; Indels 751; Gaps 105;
QY 454 LVLTASFEPVNT-EWVPF-----RDE-----KYRLEVLQGFEEPEILSPLOPPL-- 498
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QY 499 ---CGQTVCDN-----VELISQYNGVWPLRGEKVI 525
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QY 526 RYQVNVICD--DEGLNPIVSEQIRLOHEALNEAF--SRYNISWQLSVHQVHNSTLRHR 580
Db 159 WDNETPICRIPCGLPPTIT-----NGDFISTNRENFHY-----GS 194
QY 581 VVLVNCPEPSKIGND-----HCDPECEHPLTYDGG---DCRLOGRCYSWNRDGL 627
Db 195 VVTYRCNPGSGGRKVFELVGEPSIYCTSNDDQ--VGIWSPAPQCIIPNKCPTPENVENGI 252
QY 628 CHECCNM--LNDFDDGDC-----C-----DPQVADVKTCTFDPDSPKRAY 666
Db 253 LVSDNRSLFSLNEVEFRQCPVFVMKGRPRVKCOALNKWEPELPSCSRVCOPRPDLHA- 311
QY 667 MSVKELKEALQLNSTHF--LNTYFASSVREDLAGAATW-----PMDKDAVT----- 710
Db 312 -----ERTQDKDNFSPGOEVFYSCEFGYDLRGAASMRCTPQGDWSPAAPTCEVKS CD 364
QY 711 ----HLGGVLSPAYYGMPGHTDTMHEVGHVLG--LYHVPKG-----VSERE 752
Db 365 DFMGQLNGRVLFPVNLQGAKYDFVCDEGFQLKSSASVYLAGMESLMNSVPVCEQI 424
QY 753 SCNDPCKETVPS-METG-----DLCAD----- 773
Db 425 FC--PSPPVIPNGRHTGKPLEVFPFGKAVNYTCDPHPDRGTSFDLIGESTIRCTSDPQGN 482
QY 774 ---TAPTPKSEL---CREPE-----PTSDTCGFTTRP---GAPFTNYMS 808
Db 483 GWMSSPAPRCGILGHCAQAPDHLFAKLKTQTNASDFPIGTSIKYECREBEYGRPFS---- 538
QY 809 YTDNCTDNF---TPNQVARMHCYLDLVYQQWTESRKPTPIPIPMV----- 852
Db 539 ---ITCLNLVWSSPKDVCK-----RKSKCTPPDPVNGMVHITDIQVGSRLN 583
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Db 584 YSCTTGRLIGHSSAECILSGNAAMWSTKPRICQRI PCGLPPTIANGDPI-----STNR 637
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Db 638 ENFHGYSVVTYRKNPGSGGRKFVLFVGEPSIYCTSNDDQ-----VGISGPAPOCIIPNK 692
Qy 943 TVPCPTGCSLELLFQHPVQADTLTLWTSFEMESSQVLFDTLELLE---NKESVHLGPL 999
Db 693 CTPPNVE-----NGILVSDNRSLFSLNEVEFRCPQPGFVMKGPR 731
Qy 1000 DTFCDIPLTIKLHVDGKVSQVKTTFDERIEIDAALLTSQPHSPLCSG-CRPVRQVLRD 1058
Db 732 RVKQO-----ALNKWEPELPSCSRVQO-----754
Qy 1059 PPFASGLPVVVTSHRKFTDVE-VTPGQWYOYVLAAGGEL-GEAS----PPLNHIHA 1112
Db 755 -----PPVLAHERTQDKDNFSPGQEVFYS--CEBGYDLRGAASMRCTPOGDMSPA 805
Qy 1113 PYCG-----DGK---VSERLGE-----CDDGDLVSGDGS-----1140
Db 806 PTCEVKSCDDEMGOLLNGRVLFPVNLQAKAVDFVCDEGFOLKSSASVYCVLAGMESLMN 865
Qy 1141 ---KVCE-----LE-----EGENCVEPSL-C 1158
Db 866 SSVPVCEQIFCPSPBPVIPNGRHTGKPLEVPFGKAVNYTCDPHPDRGTSFDLIGESTIRC 925
Qy 1159 YM-YEGDGI-----CE-----PFEKTSIVDCGIYT-----PKGY-- 1187
Db 926 TSDPOGNGVWSSPAPRCGILGHCOAPDHFLFAKLKTQTNASDFPIGTLKYECRPEYGR 985
Qy 1188 -----LDQWATRAYSSHED--KKKC--PVSIVTGEPSLI-----CTSYHPD 1225
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Qy 1226 LPMNR-----PLTGMFPC-----VASENETQDDRSEQDEBGLKKEDEV 1263
Db 1042 LIGHSSAECILSGNTAHMSTKPRICQRI PCGLPPTIANGDFISTNRENFHGSV-----1095
Qy 1264 WLKVCFNRPGEARAF-----IFLTTDG-----LVPEHQOPTVT--LYL 1301
Db 1096 -VTYRCNLGSRKRVFELVGEPSIYCTSNDDQYIWSGPAPOCIIPNKCTPPNVENGILV 1154
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Db 1155 SD---NRSLFSLNEVVDRCQPGFVMKGPRRYKQALNKWEPELPSCSRVQOPPEILH 1210
Qy 1337 --HTTSVLNFSSPRVGISAVALRTSSRIGLSAPSNCTISEDEGQNHOGSCIRPCGKO- 1393
Db 1211 GEHTPSHQDNFSP-----GQEVFYSC--EPGYDLRGAASLH--CTPOG 1249
Qy 1394 -----DSCPSLL--LDHADVNCTSIGPGLMKCAITCQRFALQASSGQYIRPM 1440
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Qy 1441 QKEILLTSSSGHWDQVNS-CLPVDGCVDPSPLVNYANFSCSEG-TKFLKRCSISCVP-- 1495
Db 1305 ---CVLVGMRSLMNNNSVPVCEHIFCPNP-PALINGRHTGTPSGDIPYGEKISYTCDPHPD 1360
Qy 1496 ---PAKQGLSPWLTCLD---GLWSLPEVYCKL-----ECDAPPIIINANLLPHCLQ 1543
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Qy 1601 VFEEM-----YECTNGFSL--DSQCVLNCNQERREKLPICTKEGLWTQO 1642
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Db 1516 APICEIT--SCEPPPTISNGDFYSNNKTSFHNGTVVTYQCHTGPDEGQLFELVGERSIYC 1573
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Db 1574 TSKDDQVWSSPPPRCISTNKCTAPEVENAIRVPGNRSFFSLTEIIRFCQPGFVWGS 1633
Qy 1710 QSIVCTGRROWHPDPVLVHCIOGCEP 1735
Db 1634 HTVQCQTNGRW--GPKLPHCSRVQO 1657

RESULT 12
5256642-2
; Patent No. 5256642
; APPLICANT: FEARON, DOUGLAS T.; KLICKSTEIN, LLOYD B.; WONG,
; WINNIE W.; CARSON, GERALD R.; CONCINO, MICHAEL F.; IP, STEPHEN
; H.; MAKRIDES, SAVVAS; MARSH, HENRY C. JR.
; TITLE OF INVENTION: COMPOSITIONS OF SOLUBLE COMPLEMENT
; RECEPTOR 1 (CRI) AND A THROMBOLYTIC AGENT, AND THE METHODS OF
; USE THEREOF
; NUMBER OF SEQUENCES: 30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/588,128
; FILING DATE: 24-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 412,745
; FILING DATE: 26-SEP-1989
; APPLICATION NUMBER: 332,865
; FILING DATE: 03-APR-1989
; APPLICATION NUMBER: 176,532
; FILING DATE: 01-APR-1988
; SEQ ID NO:2:
; LENGTH: 2039
5256642-2
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Query Match 2.9%; Score 287.5; DB 6; Length 2039;
Best Local Similarity 19.1%; Pred. No. 7.7e-15;
Matches 349; Conservative 178; Mismatches 548; Indels 751; Gaps 105;
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Qy 499 -----CGQIVCDN-----VELISQYNGWYPLRGEKVI 525
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Qy 526 RYQVNICD--DEGLNPIVSEEQIRLOHEALNEAF--SRYNISWQLSVHQVHNSTLRHR 580
Db 154 WNETPPICRIPCGLPPTI-----NGDFISTNRENFHY-----GS 189
Qy 581 VVLVNCEPSKIGND-----HCDPECEHPLTGYDG--DCRLQGRCYSWNRDGL 627
Db 190 VVTYRCNPGSGGRKVFELVGEPSIYCTSNDDQ--VGIWSGPAPOCIIPNKCTPPNVENGI 247
Qy 628 CHVECNM--LNDFDDGDC-----C-----DPQVADVRAKTCFDPDSPKRAY 666
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Qy 667 MSVKELKEALQLNSTHF--LNIYFASSVREDLAGAATW-----PMDKDAVT----- 710
Db 307 -----ERTQDKDNFSPGQEVFYSCEBPGYDLRGAASMRCTPOGWSPAAPTCEVKS CD 359
Qy 711 -----HLGIVLSPAYYGMPGHTDTMIEVGHVLG--LYHVFEG-----VSERE 752
Db 360 DFMGOLLNGRYLFPVNLQAKAVDFVCDEGFOLKSSASVYCVLAGMESLMNSVVPVCEQI 419
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Qy 1643 FKLCENLQGECPPPPELSN-----VEYKCEQGYG----- 1672
Db 1511 APICEII--SCEPPPTISNGDFYSNNRSTFHNCTVVTYQCHTGTPDGEQLFELVGERIYC 1568
Qy 1673 -----IGAVCSP-----LCVIPP-SDPVMLPENIT---ADTLEHMMEP---VKV 1709
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Qy 1710 QSIVCTGRQWHPDPVLVHCIOGCEP 1735
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RESULT 13
5472939-2
;Patent No. 5472939
;APPLICANT: FEARON, DOUGLAS T.;KLICKSTEIN, LLOYD B.;WONG,
;WINNIE W.;CARSON, GERALD R.;CONCINO, MICHAEL F.;IP, STEPHEN
;H.;MARRIDES, SAVVAS;MARSH, HENRY C. JR.
;TITLE OF INVENTION: METHOD OF TREATING COMPLEMENT
;MEDIATED DISORDERS
;NUMBER OF SEQUENCES: 30
;CURRENT APPLICATION DATA:
;APPLICATION NUMBER: US/08/138, 825
;FILING DATE: 19-OCT-1993
;PRIOR APPLICATION DATA:
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;FILING DATE: 24-SEP-1990
;APPLICATION NUMBER: 412, 745
;FILING DATE: 26-SEP-1989
;APPLICATION NUMBER: 332, 865
;FILING DATE: 03-APR-1989
;APPLICATION NUMBER: 176, 532
;FILING DATE: 01-APR-1988
;SEQ ID NO:2:
;LENGTH: 2039
5472939-2
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Query Match 2.9%; Score 287.5; DB 6; Length 2039;
Best local Similarity 19.1%; Pred. No. 7.7e-15;
Matches 349; Conservative 178; Mismatches 548; Indels 751; Gaps 105;

Qy 454 LVLTASFEFVNT-EMVPF-----RDE-----KYPRLEVLOGFPEPEILSPLQPL-- 498
Db 34 LALPVAMQGNAPLEWLPFARPTNLTDHEFPPIGTLYLNYECRPGYSGRPFSIICLKNSVWT 93
Qy 499 ---CGQIVCDN-----VELISQYNGYWPRLRGEKVI 525
Db 94 GAKDRCRKSCRNPPDPVNGMVHVIKIQFGSQIKYSCTKGYRLIGSSSATCIISGDTVI 153
Qy 526 RYQVNVICD--DEGLNPVSEEQIRLQHEALNEAF--SRYNISWQLSVHQVHNSTLRHR 580
Db 154 WDNETPICRILPCGLPPTIT-----NGDFISTNRENFHY-----GS 189
Qy 581 VVLVNCPEPSKIGND-----HCDBEGEHLPTGYDGG--DCRLQGRCYSWNRDGL 627
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Qy 774 ---TAPTPKSEL---CREPE-----PTSDTCGFTRFP---GAPFTNYS 808
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Qy 892 QYVHTAS--SRYVCDSSGYWTPEAVGPPDV-----DQPCPSLQAWS-PEVHLYHMM 942
Db 633 ENFHYGSVVTYRCNPGSGRKVFELVGEPSIYCTSNDDQ-----VGIMSGPAPQCIIPNK 687
Qy 943 TVPCPTGCSLELFGHPVQADTLTLWTSFEMESSQVLFDETEILLE--NKESVHLGPL 999
Db 688 CTPEPNE-----NGILVSDNRSLFSLNEVEFRCQPGFVMKGP 726
Qy 1000 DTFCDIPLTIKLVHGKVSQVVTFDERIEIDALLTSQPHSPLCSG-CRPVRYQVLRD 1058
Db 727 RVKQO-----ALNKMPELPSCSRVCOP----- 749
Qy 1059 PPFASGLPVVYTHSHRKFTDVE-VTPGQMYQVYLAEGEL-GEAS---PPLNIHGA 1112
Db 750 -----PPDVLHAERTQRDKDNFSPQOEVFYS--CEPGYDLRGAASMRCTPQGDWSPA 800
Qy 1113 PYCG-----DGK---VSERLGEE---CDDGLVSGDGS----- 1140
Db 801 PTCEVKSCDDFMGQLNGRVLPVNLQLGAKVDFVCDEGQLKSSASVCVLGAMESIMN 860
Qy 1141 ---KVCE-----LB-----EGFNCVGEPSL-C 1158
Db 861 SSVPVCEQIFCSPVPIPNGRHTGKPLEVFPFGKAVNYTCDHPDRGTSFDLIGESTIRC 920
Qy 1159 YM-YEGDGI-----CE-----PFEKTSIVDCGIYT-----PKGY-- 1187
Db 921 TSDPQNGVWSSPAPRCGILGHCOAPDHFLEAKLKTQTNASDFPIGTSLKYECPREYGR 980
Qy 1188 -----LDQWATRAYSSHED--KKCC--PVSILVTGEPHSLI-----CTSYHPD 1225
Db 981 PFSITCLD--NLVWSSPKDYCKRKSCKTPDPVNGMVHVTIDIQVGSRIYSCITIGH-R 1036
Qy 1226 LPNHR-----PLTWFPCC-----VASENETODDRSEQPEGLKKEDEV 1263
Db 1037 LIGHSSAECILSGNTAWSTKPIQRIQRIPCGLPPTIANGDFTSTNRENFHYSV----- 1090
Qy 1264 WLKVCFNRPGEARAF-----IFLTTDG-----LVPEHQOPTVT--LYL 1301
Db 1091 -VTYRCNLGSRGRKVFELVGEPSIYCTSNDDQVGIWSGPAQCIIPNKCTPPNVENGILV 1149
Qy 1302 TDVRSNHSI-----GTYGSLSCQ-----HNPLIINTHHQNVLFH 1336
Db 1150 SD---NRSLFSLNEVDFRCQPGFVMKGPRAVYKCOALNKMPELPSCSRVCOPPEILH 1205
Qy 1337 --HTSVLNFSSPRVYISAVALTSSRIGLSAPNSCISEDEGQNHQGSCTHRPCGKQ- 1393
Db 1206 GEHTPSHQDNFSP-----GQEVFYS--EPGYDLRGAASLH--CTPQG 1244
Qy 1394 -----DSCPSLI--LDHADVNTCTSIGPIMKCAITCQGFALQASSGQYIRPM 1440
Db 1245 DWSPEAPRCVAKSCDDEFLGQLPHGRVLFPLNLQLG-AKVSFVCDGEGFRLKGSVSH---- 1299
Qy 1441 QKEILLTCSSGHWQNTS-CLPVDGCVDPDPSLVANYANFSCEG-TKFLKRCGISCVP--- 1495
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Db 1356 RGMTEFNLIgest-IRCTSDPHNGVWSSPAPRCESLVRAGHCKTBEQFPFASPTIP--IN 1412
Qy 1544 D-NHDVGTICKYECKRPGYVAESAEGKYVKNLLKIQCLEGGIWE--QGSCTPVVCEPPPP 1600
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Db 1629 HTVQCQGTNGRW--GPKLPHCSRVCOP 1652

RESULT 14
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;Patent No. 5256642
; APPLICANT: FEARON, DOUGLAS T.; KLICKSTEIN, LLOYD B.; WONG,
; WINNIE W.; CARSON, GERALD R.; CONCINO, MICHAEL F.; IP, STEPHEN
; H.; MAKRIDES, SAVVAS; MARSH, HENRY C. JR.
; TITLE OF INVENTION: COMPOSITIONS OF SOLUBLE COMPLEMENT
; RECEPTOR 1 (CR1) AND A THROMBOLYTIC AGENT, AND THE METHODS OF
; USE THEREOF
; NUMBER OF SEQUENCES: 30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/588,128
; FILING DATE: 24-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 412,745
; FILING DATE: 26-SEP-1989
; APPLICATION NUMBER: 332,865
; FILING DATE: 03-APR-1989
; APPLICATION NUMBER: 176,532
; FILING DATE: 01-APR-1988
; SEQ ID NO:2:
; LENGTH: 2039
5256642-2

Query Match 2.9%; Score 287.5; DB 6; Length 2039;
Best Local Similarity 19.1%; Pred. No. 7.7e-15;
Matches 349; Conservative 178; Mismatches 548; Indels 751; Gaps 105;
Qy 454 LVLTASFEPVNT-EWVPF-----RDE-----KYPRLEVLOGFEPPEILSPLQPP-- 498
Db 34 LALPVAMGQCNAPEWLPFARPTNLTDEFEFPPIGTLYLNYECRPGYSGRPFSIICLKNSVMT 93
Qy 499 -----CGQTVCDN-----VELISQYNGWPLRGEKVI 525
Db 94 GAKDRCRKRKSRNPDPVNGMVHVIKIQFGSQIKYSCTKGYRLIGSSSATCIISGDTVI 153
Qy 526 RYQVNVICD--DEGLNPIVSEEQIRLQHEALNEAF---SRYNISWQLSVHQVHNSTLRHR 580
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Qy 628 CHVECNMM--LNDFDGDC-----C-----DPQVADVKTCTFDPDSPKRAY 666
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Qy 711 -----HLGIVLSPAYYGMFGHTDTMIHEVHVLG---LYHVFKG-----VSERE 752
Db 360 DFMGQLNGRVLFPVNLQLGAKVDVFCDEGQOLKSSASCYCLAGMESLWNSVPVCEQI 419
Qy 753 SCNDPCKETVPS-METG-----DLCAD----- 773
Db 420 FC--PSPVPINGRHTGKPLLEVFPFGKAVNYTCDBHPDRGTSFDLIGESTIRCTSDPQGN 477
Qy 774 ---TAPTPKSEL---CREPE-----PTSDTCGFTFRP---GAPFTNYMS 808
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Db 534 ---ITCLDNLVWSSPKDVCK-----RKSCKTPDPVNGMVHVTIDIQVGSRI 578
Qy 853 -----IGQTNKSLTI-----HW-LPPI-----SGVYDRAGSLCGACTEDGTFR 891
Db 579 YSCTTGRLIGHSSABECILSGNAHWSTKPIQORIPCGLPRTIANGDFI-----STNR 632
Qy 892 QYVHTAS--SRVCDSSGYWTPBEAVGPRDV-----DQCEPSLQAWS--BEVHLYHMM 942
Db 633 ENFHGYSVVTYRCNPGSGRKVFELVGEPSICTSNDQ-----VGIWGPAPQCIIPNK 687
Qy 943 TVPCPTGCSLELLEFQHPVQADTLTLWVTSFMESSQVLFDETEILLE---NKESVHLGPL 999
Db 688 CTRPNE-----NGILVSDNKSLSFSLNEVEFEFCOPGFVMKGR 726
Qy 1000 DTFCDIPLTIKLHVGVKGVKVTYFDERIEIDAALLTSOPHSPLCSG--CRPVRYQVLRD 1058
Db 727 RVKQ-----ALNKWEPELPSCSRVCOP----- 749
Qy 1059 PPPASGLPVVYTHSHRKFTDVE--VTPGQMYQVLAEGGEL-GEAS---PPLNHIHGA 1112
Db 750 -----PPDVLAERTQDKDNFSPGOEVFYS--CEPGYDLRGAASMRCTPOGDWSPAA 800
Qy 1113 PYCG-----DGK---VSERLGE-----CDDGDLVSGDGS----- 1140
Db 801 PTCEVKSCDDFMGQLNGRVLFPVNLQLGAKVDVFCDEGQOLKSSASCYCLAGMESLWN 860
Qy 1141 ---KVCE-----LE-----EGFNCVGEPSL-C 1158
Db 861 SSVPVCEQIFCPSPPVPIPNGRHTGKPLVFPFGKAVNYTCDBHPDRGTSFDLIGESTIRC 920
Qy 1159 YM-YEGDGI-----CE-----PFEKTSIVDCGIY-----PKGY-- 1187
Db 921 TSDPQNGVWSSPAPRCGLGHGQAPDHFLEAKLKTQTNASDPFICTSLKYECRPEYGR 980
Qy 1188 -----LDQWATRAYSSHED---KKKC--PVSIVTGEPSLSI-----CTSYHPD 1225
Db 981 PFSITCLD--NLVWSSPKDVCKRKSKCTPPDPVNGMVHVTIDIQVGSRIYSCTTGH-R 1036
Qy 1226 LPNHR-----PLTGWFP-----VASENETQDRSEQEGSLKKEDEV 1263
Db 1037 LIGHSSABECILSGNTAHWSTKPIQORIPCGLPRTIANGDFISTNRENFHGSV----- 1090
Qy 1264 WLKVCFNRPGEARAF-----IFLTIDG-----LVPEHQOPTVT--LYL 1301
Db 1091 -VTYRCNLGSRKRVFELVGEPSICTSNDQYGIWGPAPQCIIPNKCTPPNVENGILV 1149
Qy 1302 TDVRGSNHS-----CTYGLSCQ-----HNPLINVTTHQNLVLFH 1336
Db 1150 SD---NRSLSLNEVVDFRCQGFVMKGPRAVYKQALNKWEPELPSCSRVCQPPPEILH 1205
Qy 1337 --HTSVLNFSSPRVGISAVALTSSRIGLSAPNSNCISEDEGQNHOGQSCIRPCGKQ- 1393
Db 1206 GEHTPSHODNFSP-----GQEVFYS--EPGYDLRGAASLH--CTPOG 1244

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Qy 1394 -----DSCPSSL--LDHADVNCTSIGPGLMKCAITCORGPAALQASSGOYIRPM 1440
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Qy 1441 QKEILLTSSGHWQDQNS-CLPVDGCVDPBSLVNYANFSCSEG--TKFLKRCISCVP--- 1495
Db 1300. ---CVLVGRMSLWNSVPVCEHIFCENP-PAIINGRHTGTSPSGDIPYGEISYTCDBHPD 1355
Qy 1496 ---PAKQGISPWLTCLED---GLWSLPEVYCKL-----ECDAPPIILNANLLPHCLQ 1543
Db 1356 RGMTFNLIGEST-IRCTSDPHNGVWSSPAPRCCLSVRAGHCKTPEQPPFASPTIP--IN 1412
Qy 1544 D-NHDVGITCKYECKPGYVAESAEGVYRNKLLKIQCLEGGIWE--QSGCIPVCEPPPP 1600
Db 1413 DFEFPVGTSLNYECRPGYF-----GKMFSISCLLENLWSSVEDNCRKSGCPPPE 1462
Qy 1601 VFEGM-----YECTNGFSL-----DSQCVLNCNQREKLPILCTKEGLWTOE 1642
Db 1463 PFMGMVHINDTQFGSTVNYSCNEGFRLLGSPSTCLVSGNNV-----TWDKK 1510
Qy 1643 FKLCENLQEGCPPPSSELS-----VEYKCEQY----- 1672
Db 1511 APICEIT--SCEPPPTISNGDFYSNNRTSFHNGTVTYQCHTGPDGEQLFELVGERIYC 1568
Qy 1673 -----IGAVCSP-----LCVIPP-SDPVMLPENIT---ADTLEHMBP---VKV 1709
Db 1569 TSKDDQGVWSSPPPRCISTNKCTAPEVNAIRVPGNRSFSLTEIRRCQGFVMVGS 1628
Qy 1710 OSIIVCTGRQWHPDPVLVHCIOSCPE 1735
Db 1629 HTVQCQTNGRW--GPKLPHCSRVQOP 1652

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RESULT 15
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; Patent No. 5472939
; APPLICANT: FEARON, DOUGLAS T.; KLICKSTEIN, LLOYD B.; WONG,
; WINNIE W.; CARSON, GERALD R.; CONCINO, MICHAEL F.; IP, STEPHEN
; H.; MAKRIDES, SAVVAS; MARSH, HENRY C. JR.
; TITLE OF INVENTION: METHOD OF TREATING COMPLEMENT
; MEDIATED DISORDERS
; NUMBER OF SEQUENCES: 30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/138,825
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 588,128
; FILING DATE: 24-SEP-1990
; APPLICATION NUMBER: 412,745
; FILING DATE: 26-SEP-1989
; APPLICATION NUMBER: 332,865
; FILING DATE: 03-APR-1989
; APPLICATION NUMBER: 176,532
; FILING DATE: 01-APR-1988
; SEQ ID NO:2
; LENGTH: 2039
5472939-2

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Query Match 2.9%; Score 287.5; DB 6; Length 2039;
Best Local Similarity 19.1%; Pred. No. 7,7e-15;
Matches 349; Conservative 178; Mismatches 548; Indels 751; Gaps 105;

Qy 454 LVLTASFEPVNT-EWVP-----RDE-----KYPRLEVLOGFBEPEILSPLOPPL-- 498
Db 34 LALPVAMGQCNAPLEWLPFARPTNLTDEFPPIGTLYLNEYCRPGYSGRPSIICLKNSVWT 93
Qy 499 ---CGQTVCDN-----VELISQYNGYWPLRGEKVI 525
Db 94 GAKDRCCRKSCRNPPDPVNGMVHVIKIQGSIKYSTKGYRLIGSSSATCIIISGDTVI 153
Qy 526 RYQVNVICD--DEGLNPIVSEEQIRLOHEALNEAF--SRYNISWQLSVHQNSTLRHR 580
Db 154 WDNETPICRIPCGLPPTIT-----NGDFISTNRENFHY-----GS 189

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QY 711 -----HLGGIVLSPAYYGMPGHTDTMIHEVHVLG--LYHVFKG-----VSERE 752
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Db 360 DEMQQLNGRVLFPVNLQLGAKVDVFCDEGFQLKSSASAYCVLAGMESLWNSVPVCEQI 419
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QY 892 QYVHTAS--SRVCDSSSGYWTPEBAVGPRDV-----DQPCPSLQAWS--PEVHLYHMM 942
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QY 1337 --HTTSVLINFSSPRVGISAVALTSSRIGLSAPNSNCISEDEGQNHQOSCIHRPCGKQ- 1393
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Search completed: August 25, 2005, 22:25:38
Job time : 53.4828 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 25, 2005, 22:20:01 ; Search time 127.279 Seconds
(without alignments)
5529.033 Million cell updates/sec

Title: US-09-983-025B-2

Perfect score: 9856

Sequence: 1 NMCLKILRLSLAILAGWALC.....AADCDLDECTCRDKAEHQ 1791

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1767149 seqs, 392926209 residues

Total number of hits satisfying chosen parameters: 1767149

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	9836	99.8	1791	15	US-10-675-685-3
4	9507	96.5	1770	9	US-09-827-998-10
5	9507	96.5	1770	15	US-10-675-685-10
6	7363	74.7	1385	9	US-09-827-998-16
7	7363	74.7	1385	15	US-10-675-685-16
8	3916.5	39.7	1627	10	US-09-983-025-25
9	3916.5	39.7	1627	15	US-10-295-027-663
10	3916.5	39.7	1627	17	US-10-783-311-1
11	3916.5	39.7	1627	17	US-10-741-600-1406

12	3916.5	39.7	1627	17	US-10-991-321-32	Sequence 32, Appl1
13	3916.5	39.7	1627	18	US-10-887-229A-8	Sequence 8, Appl1
14	3914.5	39.7	1547	17	US-10-783-311-2	Sequence 2, Appl1
15	3602	36.5	1420	17	US-10-741-600-1403	Sequence 1403, Ap
16	3602	36.5	1420	17	US-10-741-600-1405	Sequence 1405, Ap
17	3044	30.9	1232	17	US-10-741-600-1404	Sequence 1404, Ap
18	2219	22.5	858	15	US-10-334-143-85	Sequence 85, Appl1
19	1893	19.2	704	17	US-10-600-1402	Sequence 1402, Ap
20	1086	11.0	192	9	US-09-864-761-34265	Sequence 34265, A
21	383	3.9	70	9	US-09-864-761-34264	Sequence 34264, A
22	360.5	3.7	165	9	US-09-864-761-42873	Sequence 42873, A
23	346.5	3.5	3567	15	US-10-028-248A-47	Sequence 47, Appl1
24	346.5	3.5	3567	15	US-10-107-782-47	Sequence 2, Appl1
25	336.5	3.4	3571	16	US-10-603-283-2	Sequence 4, Appl1
26	336.5	3.4	3594	9	US-09-911-842-4	Sequence 4, Appl1
27	336.5	3.4	3594	13	US-10-150-821-4	Sequence 430, App
28	334.5	3.4	3557	15	US-10-295-027-430	Sequence 1297, Ap
29	334.5	3.4	3557	15	US-10-295-027-1297	Sequence 8, Appl1
30	332.5	3.4	3568	15	US-10-028-248A-8	Sequence 8, Appl1
31	332.5	3.4	3568	15	US-10-107-782-8	Sequence 6, Appl1
32	332.5	3.4	3570	15	US-10-028-248A-6	Sequence 6, Appl1
33	332.5	3.4	3570	15	US-10-107-782-6	Sequence 2, Appl1
34	330.5	3.4	3571	9	US-09-911-842-2	Sequence 2, Appl1
35	330.5	3.4	3571	13	US-10-150-821-2	Sequence 34262, A
36	324	3.3	63	9	US-09-864-761-34262	Sequence 5, Appl1
37	292.5	3.0	2489	9	US-09-911-842-5	Sequence 5, Appl1
38	292.5	3.0	2489	13	US-10-150-821-5	Sequence 1242, Ap
39	292.5	3.0	2489	17	US-10-741-600-1242	Sequence 45, Appl1
40	290	2.9	3564	15	US-10-016-248-45	Sequence 1241, Ap
41	287.5	2.9	2039	17	US-10-741-600-1241	Sequence 2152, Ap
42	287.5	2.9	2044	15	US-10-276-774-2152	Sequence 52, Appl1
43	287	2.9	1947	16	US-10-742-887-52	Sequence 102, App
44	283	2.9	1139	9	US-09-764-893-102	Sequence 99, Appl1
45	283	2.9	1139	9	US-09-764-881-99	

ALIGNMENTS

RESULT 1
US-09-983-025-2
; Sequence 2, Application US/09983025
; Publication No. US20030124529A1
; GENERAL INFORMATION:
; APPLICANT: OXVIG, Claus
; TITLE OF INVENTION: PREGNANCY-ASSOCIATED PLASMA PROTEIN-A2 (PAPP-A2)
; FILE REFERENCE: OXVIG-1A
; CURRENT APPLICATION NUMBER: US/09/983, 025
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/241,840
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: DK PA 2000 01571
; PRIOR FILING DATE: 2000-10-20
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 1791
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(66)
; OTHER INFORMATION: prepro part of PAPP-A2
; NAME/KEY: misc feature
; LOCATION: (67)..(699)
; OTHER INFORMATION: pro part of PAPP-A2
US-09-983-025-2

Query Match 100.0%; Score 9856; DB 10; Length 1791;
Best local Similarity 100.0%; Pred. No. 0;
Matches 1791; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MMCLKILRISLAIAGWALCSANSELGWTTRKSLVEREHLNOVLLEGERCWLGAQVRRPR 60
Db 1 MMCLKILRISLAIAGWALCSANSELGWTTRKSLVEREHLNOVLLEGERCWLGAQVRRPR 60
Qy 61 ASPQHLFGVYPSRAGNYLRPYVGEQEIHTHTGRSKPDTEGNAVSLVPPDLTENPAGLRG 120
Db 61 ASPQHLFGVYPSRAGNYLRPYVGEQEIHTHTGRSKPDTEGNAVSLVPPDLTENPAGLRG 120
Qy 121 AVEBPAPWVGDSPIGOSELLGDDDAYLGNORSKESLGEAGIQKGSAMAATTTAIFTTL 180
Db 121 AVEBPAPWVGDSPIGOSELLGDDDAYLGNORSKESLGEAGIQKGSAMAATTTAIFTTL 180
Qy 181 NEPKPETORRGMAKSRORQVWKRAEDGQGSGISSHFQWPWKHSLKHRYKKSPPESN 240
Db 181 NEPKPETORRGMAKSRORQVWKRAEDGQGSGISSHFQWPWKHSLKHRYKKSPPESN 240
Qy 241 QNGEGSYREAETFNQVGLPILYFSGRRELRILRPEVLAEIPREAFTVEAMVKEGGQN 300
Db 241 QNGEGSYREAETFNQVGLPILYFSGRRELRILRPEVLAEIPREAFTVEAMVKEGGQN 300
Qy 301 NPALIAGVFNCSHTVSDKGWALGIRSGDKGRDARFFFSLCTDRVKKATILISHSRYO 360
Db 301 NPALIAGVFNCSHTVSDKGWALGIRSGDKGRDARFFFSLCTDRVKKATILISHSRYO 360
Qy 361 PGTWTHVAATYDGRHMAALYVDGTQVASSLDQSGPLNSPFMASCRSLLGDSSEDGHYR 420
Db 361 PGTWTHVAATYDGRHMAALYVDGTQVASSLDQSGPLNSPFMASCRSLLGDSSEDGHYR 420
Qy 421 GHLGTLVFWSTALPQSHFQHSSQHSSEEAATDLVLTASFEPVNTIEWPFRDEKYPRLV 480
Db 421 GHLGTLVFWSTALPQSHFQHSSQHSSEEAATDLVLTASFEPVNTIEWPFRDEKYPRLV 480
Qy 481 LQGFEPPEILSLPPLCGQTVCDNVELISQYNGYWPRLGEKVIRYQVANI CDDEGLNP 540
Db 481 LQGFEPPEILSLPPLCGQTVCDNVELISQYNGYWPRLGEKVIRYQVANI CDDEGLNP 540
Qy 541 IVSEQIRLOHEALNEAFSRYNISWQLSVQVHNSTLRHRVVLVNCEPSKIGNDHCDPEC 600
Db 541 IVSEQIRLOHEALNEAFSRYNISWQLSVQVHNSTLRHRVVLVNCEPSKIGNDHCDPEC 600
Qy 601 EHPLTYDGDGDCRLQGRCYSWNRDGLCHVECNMNLNDFDGDCCDPQVADVRKTCFDPD 660
Db 601 EHPLTYDGDGDCRLQGRCYSWNRDGLCHVECNMNLNDFDGDCCDPQVADVRKTCFDPD 660
Qy 661 SPKRAYMSVKELKEALQLNSTHFLNIFYASSVREDLAGAATWPMWCKDVAATHLGIVLSPA 720
Db 661 SPKRAYMSVKELKEALQLNSTHFLNIFYASSVREDLAGAATWPMWCKDVAATHLGIVLSPA 720
Qy 721 YYGMPGHTDTMHEVGHVGLYHVFKVSEKESCNDPCKETVPSMETGDLCADTAPTPKS 780
Db 721 YYGMPGHTDTMHEVGHVGLYHVFKVSEKESCNDPCKETVPSMETGDLCADTAPTPKS 780
Qy 781 ELCREPEPTSDTCGTRFPGARFTNMSYTDNCTDNFTPNQVARMHCYLDLVYQOWTES 840
Db 781 ELCREPEPTSDTCGTRFPGARFTNMSYTDNCTDNFTPNQVARMHCYLDLVYQOWTES 840
Qy 841 RKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLCGACTEDGTFRQVHTASSR 900
Db 841 RKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLCGACTEDGTFRQVHTASSR 900
Qy 901 RVCDSGGYWTPEAVGPPVDVQCEPSLOAMSPEVHLYHMMMTVPCPTEGCSLELLFQHP 960
Db 901 RVCDSGGYWTPEAVGPPVDVQCEPSLOAMSPEVHLYHMMMTVPCPTEGCSLELLFQHP 960
Qy 961 VQADTLTLWTSFFMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKLHVDGKVS 1020
Db 961 VQADTLTLWTSFFMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKLHVDGKVS 1020
Qy 1021 KVTYFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVVVTHSHRKFTDVE 1080
Db 1021 KVTYFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVVVTHSHRKFTDVE 1080
Qy 1081 VTPGOMYQYVLAEAGGELGEASPLNHIHGAPYCGDGKVSERLGEEDCDGDLVSGDGCS 1140

Db 1081 VTPGOMYQYVLAEAGGELGEASPLNHIHGAPYCGDGKVSERLGEEDCDGDLVSGDGCS 1140
Qy 1141 KVCLEEGFNVCVGEPSLCYMEGDGICEPFEKRTSIVDCGIYTPKGYLDQWATRAYSSHE 1200
Db 1141 KVCLEEGFNVCVGEPSLCYMEGDGICEPFEKRTSIVDCGIYTPKGYLDQWATRAYSSHE 1200
Qy 1201 DKKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWFPVASENETQDDRSQPEGLKKE 1260
Db 1201 DKKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWFPVASENETQDDRSQPEGLKKE 1260
Qy 1261 DEWMLKVCFNRPGEARAIPIFLTDTGIVGEHQOPTVTLYLTDVSGSNHSLGTYGLSCQH 1320
Db 1261 DEWMLKVCFNRPGEARAIPIFLTDTGIVGEHQOPTVTLYLTDVSGSNHSLGTYGLSCQH 1320
Qy 1321 NPLIINVTFHQNVLFHHTTSVTLNFSBPRVGISAVALRTSSRIGLSAPSNCSISEDEGQNH 1380
Db 1321 NPLIINVTFHQNVLFHHTTSVTLNFSBPRVGISAVALRTSSRIGLSAPSNCSISEDEGQNH 1380
Qy 1381 QGQSCIHRCQKQSDCPSLLLDHADVNVCTSIGPGLMKCAITCQRFALQASSGOYIRPM 1440
Db 1381 QGQSCIHRCQKQSDCPSLLLDHADVNVCTSIGPGLMKCAITCQRFALQASSGOYIRPM 1440
Qy 1441 QKEILLTSSGHWQDVNSCLPVDGVPDPSLVNANYANFSCSEGTKFLKCSISCVPAKLQ 1500
Db 1441 QKEILLTSSGHWQDVNSCLPVDGVPDPSLVNANYANFSCSEGTKFLKCSISCVPAKLQ 1500
Qy 1501 GLSPWLTCIEDGLMSLPEVYCKLECDAPPIILNANLLPHCLQDNHDTVGTICKYECKPGY 1560
Db 1501 GLSPWLTCIEDGLMSLPEVYCKLECDAPPIILNANLLPHCLQDNHDTVGTICKYECKPGY 1560
Qy 1561 YVAESAEGKVRNKLKIQCLEGGIWEQSCIPVCEPPRPVFEQMECTNGFSLDSQCVL 1620
Db 1561 YVAESAEGKVRNKLKIQCLEGGIWEQSCIPVCEPPRPVFEQMECTNGFSLDSQCVL 1620
Qy 1621 NCNQEREXLPILCTKEGLWTOEFKLCENLQGECPRPPELSNVEYKCEQYIGAVCSPL 1680
Db 1621 NCNQEREXLPILCTKEGLWTOEFKLCENLQGECPRPPELSNVEYKCEQYIGAVCSPL 1680
Qy 1681 CVIPSPDVMLENITADTLEHNMPEYKVQISVCTGRQWHPDPVLVHCIOCEPFOADG 1740
Db 1681 CVIPSPDVMLENITADTLEHNMPEYKVQISVCTGRQWHPDPVLVHCIOCEPFOADG 1740
Qy 1741 WCDTINNRAYCHYDGDCCSSTLSKKVIIPAADCDLDECTCRDPAEENQ 1791
Db 1741 WCDTINNRAYCHYDGDCCSSTLSKKVIIPAADCDLDECTCRDPAEENQ 1791

RESULT 2
US-09-827-998-3
; Sequence 3, Application US/09827998
; Patent No. US20020102252A1
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: MDHMOF-8
; CURRENT APPLICATION NUMBER: US/09/827, 998
; PRIOR APPLICATION NUMBER: 2001-04-06
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/207, 456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236, 359
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 3
; LENGTH: 1791
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-827-998-3
Query Match 99.8%; Score 9836; DB 9; Length 1791;
Best Local Similarity 99.8%; Pred. No. 0;

Matches 1788; Conservative 1; Mismatches 2; Indels 0; Gaps 0;				
Qy	1	MMCLKIRISLAILAGWALCSANSELGWTGRKSLVEREHLNQVLLEGERCWLGAQRPR	60	
Db	1	MMCLKIRISLAILAGWALCSANSELGWTGRKSLVEREHLNQVLLEGERCWLGAQRPR	60	
Qy	61	ASPOHHLFGVYPSRAGNYLRPYVGEQEIHHHTGRSKPDTEGNVSLVPPDLTENPAGLRG	120	
Db	61	ASPOHHLFGVYPSRAGNYLRPYVGEQEIHHHTGRSKPDTEGNVSLVPPDLTENPAGLRG	120	
Qy	121	AVEEPAAPVYVDSPIQSELLGDDDAYLGNORSKESLGEAGIQKGSAMAAITTTAIFTTL	180	
Db	121	AVEEPAAPVYVDSPIQSELLGDDDAYLGNORSKESLGEAGIQKGSAMAAITTTAIFTTL	180	
Qy	181	NEPKPETORRGWAKSRQRQVWKRAEDGGDSGISSHFQWPVKHSLKHVKKSPPEESN	240	
Db	181	NEPKPETORRGWAKSRQRQVWKRAEDGGDSGISSHFQWPVKHSLKHVKKSPPEESN	240	
Qy	241	ONGEGSYREAEFTENSQVGLPILYFSGRERRLLRPEVLAIEPREAFVTEAWYKPEGQN	300	
Db	241	ONGEGSYREAEFTENSQVGLPILYFSGRERRLLRPEVLAIEPREAFVTEAWYKPEGQN	300	
Qy	301	NPAIIAGVFNCSHTVSDKGWALGIRSGDKGKRDARFFPSLCTDRVKKATILLISHSRQ	360	
Db	301	NPAIIAGVFNCSHTVSDKGWALGIRSGDKGKRDARFFPSLCTDRVKKATILLISHSRQ	360	
Qy	361	PGTWTHVAATYDGRHMAIYVDGTQVASSLDGSGPLNSPFMASCRSLLLGDSSEDGHYFR	420	
Db	361	PGTWTHVAATYDGRHMAIYVDGTQVASSLDGSGPLNSPFMASCRSLLLGDSSEDGHYFR	420	
Qy	421	GLGLTLVFWSTALPQSHFOHSSQHSSEBEATDLVLTASFEPVNTIEWPFRDEKYPRLLEV	480	
Db	421	GLGLTLVFWSTALPQSHFOHSSQHSSEBEATDLVLTASFEPVNTIEWPFRDEKYPRLLEV	480	
Qy	481	LOGFEPEPEIISPLQPLRCGQTVCDNVELISQYNGWPLRGEKVIROYVNICDDEGLNP	540	
Db	481	LOGFEPEPEIISPLQPLRCGQTVCDNVELISQYNGWPLRGEKVIROYVNICDDEGLNP	540	
Qy	541	IVSEEOIRLOHEALNEAFSRYNISWQLSVHQVHNSLTHRVVLVNCPEPSKIGNDHCDPEC	600	
Db	541	IVSEEOIRLOHEALNEAFSRYNISWQLSVHQVHNSLTHRVVLVNCPEPSKIGNDHCDPEC	600	
Qy	601	EHPLTGYDGGCRLOGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQYADVTKTCFDPD	660	
Db	601	EHPLTGYDGGCRLOGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQYADVTKTCFDPD	660	
Qy	661	SPKRAYMSVKEIKALQLNSTHFLNIYFASVREDLAAGATWPKDAVTHLGIVLSPA	720	
Db	661	SPKRAYMSVKEIKALQLNSTHFLNIYFASVREDLAAGATWPKDAVTHLGIVLSPA	720	
Qy	721	YYGMPGHTDPMIHEGVHLGLYHVFKGVSERESNDPCKETVPSMETGDLCAADTAFTPKS	780	
Db	721	YYGMPGHTDPMIHEGVHLGLYHVFKGVSERESNDPCKETVPSMETGDLCAADTAFTPKS	780	
Qy	781	ELCREPEPTSDTCGTRFPGARFTNYMSYTDNCTDNFTPNQVARMHCYLDLVYQOWTES	840	
Db	781	ELCREPEPTSDTCGTRFPGARFTNYMSYTDNCTDNFTPNQVARMHCYLDLVYQOWTES	840	
Qy	841	RKPTPIPIPMVIGQTNKSLTIHMLPPIGIVYDRASGSLGACTEBDGFRRQYVHTASSR	900	
Db	841	RKPTPIPIPMVIGQTNKSLTIHMLPPIGIVYDRASGSLGACTEBDGFRRQYVHTASSR	900	
Qy	901	RVCDSGSGYWTPEEAVGPPDVDQPCPSILOAMSPEVHLYHMMTVPCPTEGCSLELLFOHP	960	
Db	901	RVCDSGSGYWTPEEAVGPPDVDQPCPSILOAMSPEVHLYHMMTVPCPTEGCSLELLFOHP	960	
Qy	961	VOADTLTLWTSFMESSQVLFDTIELLENKESVHLGLDTFCDIPLTIKLHVDGKVSQV	1020	
Db	961	VOADTLTLWTSFMESSQVLFDTIELLENKESVHLGLDTFCDIPLTIKLHVDGKVSQV	1020	
Qy	1021	KVYTFDERIEIDAALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVYTHSHRKFTDVE	1080	
Db	1021	KVYTFDERIEIDAALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVYTHSHRKFTDVE	1080	

Qy	1081	VTPGOMYQYQVLAEBAGGELGEASPPLNHITHGAPYCGDGKVSERLGEECDGDGLVSGDGCS	1140	
Db	1081	VTPGOMYQYQVLAEBAGGELGEASPPLNHITHGAPYCGDGKVSERLGEECDGDGLVSGDGCS	1140	
Qy	1141	KVCELEEGFNCVGEPSLCYMEGDGICEPERKTSIVDCGIYTPKGYLDQWATRAYSSHE	1200	
Db	1141	KVCELEEGFNCVGEPSLCYMEGDGICEPERKTSIVDCGIYTPKGYLDQWATRAYSSHE	1200	
Qy	1201	DKKCPVSLVTGERPHSLICTSYHPDLPMHRLTWGFPVASENETQDDRSEQPEGSLKKE	1260	
Db	1201	DKKCPVSLVTGERPHSLICTSYHPDLPMHRLTWGFPVASENETQDDRSEQPEGSLKKE	1260	
Qy	1261	DEVWLKVCFNRPGEARAIIFILTTDGLVPEHQOPTYTLYLTDVRSNHSGLTYGLSCQH	1320	
Db	1261	DEVWLKVCFNRPGEARAIIFILTTDGLVPEHQOPTYTLYLTDVRSNHSGLTYGLSCQH	1320	
Qy	1321	NPLIINVTHQNVLFHHTTSVLLNFSSPRVGISAVALRTSSRIGLSAPSNCTISEDEQNH	1380	
Db	1321	NPLIINVTHQNVLFHHTTSVLLNFSSPRVGISAVALRTSSRIGLSAPSNCTISEDEQNH	1380	
Qy	1381	OGOSCIHRPCQKQDSCPSLLLDHADVNVCTSIGPLMKCAITCQRGFALQASSGQYIRPM	1440	
Db	1381	OGOSCIHRPCQKQDSCPSLLLDHADVNVCTSIGPLMKCAITCQRGFALQASSGQYIRPM	1440	
Qy	1441	QKEILLTCSGHWQNVSCLPVDCGVDPBSLVNYANFSCSSEGTFLKRCGISCVPAKLQ	1500	
Db	1441	QKEILLTCSGHWQNVSCLPVDCGVDPBSLVNYANFSCSSEGTFLKRCGISCVPAKLQ	1500	
Qy	1501	GLSPWLTCLEDGLMSLPEVYCKLECDAPITLLNANLLPHCLQDNHDVGTICKYECKPGY	1560	
Db	1501	GLSPWLTCLEDGLMSLPEVYCKLECDAPITLLNANLLPHCLQDNHDVGTICKYECKPGY	1560	
Qy	1561	YVASABEGKVNKLKIQCLEGGIWEQSGCIPVCEPBPVPVEGMVECTNGSPLDSQCVL	1620	
Db	1561	YVASABEGKVNKLKIQCLEGGIWEQSGCIPVCEPBPVPVEGMVECTNGSPLDSQCVL	1620	
Qy	1621	NCNOERKPLICTKEGLWTOEFKLCENLOGECPRPPESELSVEYKCEQYIGAVCSPL	1680	
Db	1621	NCNOERKPLICTKEGLWTOEFKLCENLOGECPRPPESELSVEYKCEQYIGAVCSPL	1680	
Qy	1681	CVIPSPDPMLENITADTLEHWMPEVKQSVCTGRQWHPDVLVHCTQSCPEFQADG	1740	
Db	1681	CVIPSPDPMLENITADTLEHWMPEVKQSVCTGRQWHPDVLVHCTQSCPEFQADG	1740	
Qy	1741	WCDTINNRAYCHYDGGCCSSTLSSKVIPEAADCDLDECTCRDPKAEENQ	1791	
Db	1741	WCDTINNRAYCHYDGGCCSSTLSSKVIPEAADCDLDECTCRDPKAEENQ	1791	

RESULT 3
 US-10-675-685-3
 ; Sequence 3, Application US/10675685
 ; Publication No. US20040063134A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Gu, Yizhong
 ; APPLICANT: Shannon, Mark
 ; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
 ; FILE REFERENCE: PB0114
 ; CURRENT APPLICATION NUMBER: US/10/675,685
 ; PRIOR FILING DATE: 2003-09-30
 ; PRIOR APPLICATION NUMBER: US 60/207,456
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 60/236,359
 ; NUMBER OF SEQ ID NOS: 1881
 ; SOFTWARE: Aeomica Sequence Listing Engine
 ; SEQ ID NO 3
 ; LENGTH: 1791
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-675-685-3

Query Match		99.8%;	Score 9836;	DB 15;	Length 1791;
Best Local Similarity		99.8%;	Pred. No. 0;		
Matches 1788;		Conservative 1;	Mismatches 2;	Indels 0;	Gaps 0;
QY	1	MMCLKILRISLAILAGWALCSANSELGWRKKSILVEREHLNQLLEGERCWLGAQRPR	60		
DB	1	MMCLKILRISLAILAGWALCSANSELGWRKKSILVEREHLNQLLEGERCWLGAQRPR	60		
QY	61	ASPQHLFGVYPSRAGNYLRYPVGEQEIHTGSRKPDTEGNASVLPDLENPAGLRG	120		
DB	61	ASPQHLFGVYPSRAGNYLRYPVGEQEIHTGSRKPDTEGNASVLPDLENPAGLRG	120		
QY	121	AVEBPAPWVGDSPIGSELLGDDDAYLGNQSKESLGEAGIQKGSAMAATTTTAFTTL	180		
DB	121	AVEBPAPWVGDSPIGSELLGDDDAYLGNQSKESLGEAGIQKGSAMAATTTTAFTTL	180		
QY	181	NEPKPETORRGWAKSRORROVWKRAEDGQDGGISSHFQPMKHSILKHYKSPPEESN	240		
DB	181	NEPKPETORRGWAKSRORROVWKRAEDGQDGGISSHFQPMKHSILKHYKSPPEESN	240		
QY	241	QNGEGSYREAEFTNSQVGLPILYFSGRERLLRPEVLAIEIPREAFTEAWKPEGQON	300		
DB	241	QNGEGSYREAEFTNSQVGLPILYFSGRERLLRPEVLAIEIPREAFTEAWKPEGQON	300		
QY	301	NPAIIAGVFNDNCSHTVSDKQWALGIRSGKDKGRDARFFFSICTDRVKKATILISHSRQ	360		
DB	301	NPAIIAGVFNDNCSHTVSDKQWALGIRSGKDKGRDARFFFSICTDRVKKATILISHSRQ	360		
QY	361	PGTWHVAATYDGRHMLYVDGTQVASSLDQSGPLNSPFMASCRSLLGDSSEDGHYFR	420		
DB	361	PGTWHVAATYDGRHMLYVDGTQVASSLDQSGPLNSPFMASCRSLLGDSSEDGHYFR	420		
QY	421	GHLGTLVFWSTALPQSHFQHSQSSEEEATDLVLTASFEPVNTIEWPRDEKYPRLLEV	480		
DB	421	GHLGTLVFWSTALPQSHFQHSQSSEEEATDLVLTASFEPVNTIEWPRDEKYPRLLEV	480		
QY	481	LQGFEPPEILSPLOPPLCGQTVCDNVELISQYNGWYPLRGEKVIRYQVNI CDDEGLNP	540		
DB	481	LQGFEPPEILSPLOPPLCGQTVCDNVELISQYNGWYPLRGEKVIRYQVNI CDDEGLNP	540		
QY	541	IVSEQIRLOHEALNEAFSRYNISWQLSVHQVHNSLTHRVVLVNCEPSKIGNDHCDPEC	600		
DB	541	IVSEQIRLOHEALNEAFSRYNISWQLSVHQVHNSLTHRVVLVNCEPSKIGNDHCDPEC	600		
QY	601	EHLTGYDGDGCRLOGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQVADVRKTCFDPD	660		
DB	601	EHLTGYDGDGCRLOGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQVADVRKTCFDPD	660		
QY	661	SPKRAYMSVKELKEALQINSTHFLNIFYASSVREDLAGAATWPMWCKDAVTHLGIVLSPA	720		
DB	661	SPKRAYMSVKELKEALQINSTHFLNIFYASSVREDLAGAATWPMWCKDAVTHLGIVLSPA	720		
QY	721	YYGMPGHTDTMIHEVGHVLGLYHVFKGVSERESCNDPCKETVPSMETGDI CADTAPTPKS	780		
DB	721	YYGMPGHTDTMIHEVGHVLGLYHVFKGVSERESCNDPCKETVPSMETGDI CADTAPTPKS	780		
QY	781	ELCREPEPTSDTCGTRFPGARFTNMYSYTDNCTDNFTPNQVARMHCYLDLVYQOWTES	840		
DB	781	ELCREPEPTSDTCGTRFPGARFTNMYSYTDNCTDNFTPNQVARMHCYLDLVYQOWTES	840		
QY	841	RKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLCGACTEDGTRRQYHTASSR	900		
DB	841	RKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLCGACTEDGTRRQYHTASSR	900		
QY	901	RVCDSGGYWTPEEAVGPPDVDPQCEPSLQAMSPEVHLHYHMMTVPCPTEGCSLELLFOHP	960		
DB	901	RVCDSGGYWTPEEAVGPPDVDPQCEPSLQAMSPEVHLHYHMMTVPCPTEGCSLELLFOHP	960		
QY	961	VQADTLTLWTSFFMESSQVLFDTIELLENKSVHLGPLDTFCDIPLTIKLHVDGKVS	1020		
DB	961	VQADTLTLWTSFFMESSQVLFDTIELLENKSVHLGPLDTFCDIPLTIKLHVDGKVS	1020		
QY	1021	KVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVYTHSHRKFTDVE	1080		

Db	1021	KVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVYTHSHRKFTDVE	1080
QY	1081	VTPGOMYOYVLAEAGGELGEASPLNHTIHGAPYCGDGKVSERLGEEDDGLVSGDGS	1140
Db	1081	VTPGOMYOYVLAEAGGELGEASPLNHTIHGAPYCGDGKVSERLGEEDDGLVSGDGS	1140
QY	1141	KVCELEEGFNVCVGEPSLCYMYEGDGTCEPFEKRTSIVDCGITYTPKGYLDQWATRAYSSHE	1200
Db	1141	KVCELEEGFNVCVGEPSLCYMYEGDGTCEPFEKRTSIVDCGITYTPKGYLDQWATRAYSSHE	1200
QY	1201	DKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGMFPCVASENETQDDRS EQPEGLKKE	1260
Db	1201	DKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGMFPCVASENETQDDRS EQPEGLKKE	1260
QY	1261	DEVWLKVCFNRPGEARAFIFLTTDGLVGEHQOPTVTLYLTTDVRSNHS LGTYGLSCQH	1320
Db	1261	DEVWLKVCFNRPGEARAFIFLTTDGLVGEHQOPTVTLYLTTDVRSNHS LGTYGLSCQH	1320
QY	1321	NPLIINVTHQNVLFHHTTSVLLNFSSPRVGISAVALRTSSRIGLSAPSN CISEDEGQNH	1380
Db	1321	NPLIINVTHQNVLFHHTTSVLLNFSSPRVGISAVALRTSSRIGLSAPSN CISEDEGQNH	1380
QY	1381	QGQSCIHRCGKQDSCPSLLLDHADVNVNCTSIGPGLMCAITCQRFALQASSGQYIRPM	1440
Db	1381	QGQSCIHRCGKQDSCPSLLLDHADVNVNCTSIGPGLMCAITCQRFALQASSGQYIRPM	1440
QY	1441	QKEILLTCSGHWQDQNSCLPVDGCVDPBSLVNRYANFSCSEGTKEFLKRCISICVPPAKLO	1500
Db	1441	QKEILLTCSGHWQDQNSCLPVDGCVDPBSLVNRYANFSCSEGTKEFLKRCISICVPPAKLO	1500
QY	1501	GLSPWLTCLEDGLWSLPEVYCKLECDAPPIILNANLLPHCLQDNHDTVGTICKYECKPGY	1560
Db	1501	GLSPWLTCLEDGLWSLPEVYCKLECDAPPIILNANLLPHCLQDNHDTVGTICKYECKPGY	1560
QY	1561	YVAESAEGKYRNKLLKIQCLEGGIWEQSCIPVCEPFPVFEGMYECTNGFSLDSQCVL	1620
Db	1561	YVAESAEGKYRNKLLKIQCLEGGIWEQSCIPVCEPFPVFEGMYECTNGFSLDSQCVL	1620
QY	1621	NCNOREKLPILCTKEGLWQEFKLCENLQGECPPPPSSELNSVEYKCEQGYIGAVCSPL	1680
Db	1621	NCNOREKLPILCTKEGLWQEFKLCENLQGECPPPPSSELNSVEYKCEQGYIGAVCSPL	1680
QY	1681	CVIPPSDPVWLPENITADTLEHMMBEPVKQOSIVCTGRQWHPDPVLVHCTIOSCEPFOADG	1740
Db	1681	CVIPPSDPVWLPENITADTLEHMMBEPVKQOSIVCTGRQWHPDPVLVHCTIOSCEPFOANG	1740
QY	1741	WCDTINNRAYCHYDGDCCSSTLSKKVIPFADCDLDECTCRDPAEENQ	1791
Db	1741	WCDTINNRAYCHYDGDCCSSTLSKKVIPFADCDLDECTCRDPAEENQ	1791

RESULT 4

US-09-827-998-10

Sequence 10, Application US/09827998

Patent No. US20020102252A1

GENERAL INFORMATION:

APPLICANT: Gu, Yizhong

APPLICANT: Shannon, Mark

TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E

FILE REFERENCE: MDMORF-8

CURRENT APPLICATION NUMBER: US/09/827, 998

CURRENT FILING DATE: 2001-04-06

PRIOR APPLICATION NUMBER: US 60/207, 456

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: US 60/236, 359

PRIOR FILING DATE: 2000-09-27

NUMBER OF SEQ ID NOS: 1881

SOFTWARE: Aeomica Sequence Listing Engine

SEQ ID NO 10

LENGTH: 1770

TYPE: PRT

ORGANISM: Homo sapiens

US-09-827-998-10

Query Match 96.5%; Score 9507; DB 9; Length 1770;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1732; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MMCLKILRISLAILAGWALCSANSELGWTBKSLVEREHLNÖVLLGEGRCWLGAQVRRPR 60
 DB 1 MMCLKILRISLAILAGWALCSANSELGWTBKSLVEREHLNÖVLLGEGRCWLGAQVRRPR 60
 QY 61 ASPÖHHLFGVYPSRAGNYLRPYVGEÖEIHHTGRSKPDTEGNVSLVPPDLTENPAGLRG 120
 DB 61 ASPÖHHLFGVYPSRAGNYLRPYVGEÖEIHHTGRSKPDTEGNVSLVPPDLTENPAGLRG 120
 QY 121 AVEEPAPWVGSPDIGÖSELGDDDAYLGNÖRSKESLGEAGIOKGSAMAAATTTAIFTTL 180
 DB 121 AVEEPAPWVGSPDIGÖSELGDDDAYLGNÖRSKESLGEAGIOKGSAMAAATTTAIFTTL 180
 QY 181 NEPKPETÖRRGWAKSRÖRRÖVWKRAEDGÖGDSGISSHFÖPMPKHSILKHYKKSPEESN 240
 DB 181 NEPKPETÖRRGWAKSRÖRRÖVWKRAEDGÖGDSGISSHFÖPMPKHSILKHYKKSPEESN 240
 QY 241 ÖNGEGGSYREAFETFSÖVGLPILYFSGRERLLRPEVLAEIPREAFYEAWVKPEGÖN 300
 DB 241 ÖNGEGGSYREAFETFSÖVGLPILYFSGRERLLRPEVLAEIPREAFYEAWVKPEGÖN 300
 QY 301 NPAILIAGVFÖDNCSTVSDKGWALGIRSGKÖKRDARFFPSLCTDRVKAATILISHSRYÖ 360
 DB 301 NPAILIAGVFÖDNCSTVSDKGWALGIRSGKÖKRDARFFPSLCTDRVKAATILISHSRYÖ 360
 QY 361 PGTWTHVAATYDGRHMALYVDGTÖVASSLÖDGPPLNSPFMASCRSLILGDSSEDEGHYFR 420
 DB 361 PGTWTHVAATYDGRHMALYVDGTÖVASSLÖDGPPLNSPFMASCRSLILGDSSEDEGHYFR 420
 QY 421 GHLGTLVFWSTALPÖSHFÖHSSÖHSSGEEEAATDLVLTASFEPVNTIEWPDERDEKYPRLÖV 480
 DB 421 GHLGTLVFWSTALPÖSHFÖHSSÖHSSGEEEAATDLVLTASFEPVNTIEWPDERDEKYPRLÖV 480
 QY 481 LÖGFEPERELISPLÖPRLPGÖTVCÖDNLÖISÖYNGYWPRLGEKVIROYVNICDDEGLNP 540
 DB 481 LÖGFEPERELISPLÖPRLPGÖTVCÖDNLÖISÖYNGYWPRLGEKVIROYVNICDDEGLNP 540
 QY 541 IVSEÖQIRLÖHEALNEAFSRYNISWÖLSYHÖVHNSTLRHRVVLVNCESKIGNDHCDPEC 600
 DB 541 IVSEÖQIRLÖHEALNEAFSRYNISWÖLSYHÖVHNSTLRHRVVLVNCESKIGNDHCDPEC 600
 QY 601 EHPILTGYDGDÖRLÖGRCYSWNRRDGLCHYECNNMLNDFDDGDCDÖVADVRKTCFDPD 660
 DB 601 EHPILTGYDGDÖRLÖGRCYSWNRRDGLCHYECNNMLNDFDDGDCDÖVADVRKTCFDPD 660
 QY 661 SPKRAYMSYKELKEALÖLNSTHFLNIFYASSVREDLAGAATWPMWDKAVTHLGGIVLSPA 720
 DB 661 SPKRAYMSYKELKEALÖLNSTHFLNIFYASSVREDLAGAATWPMWDKAVTHLGGIVLSPA 720
 QY 721 YYGMPGHTDTMIHEVGHLGLYHVFÖKVSERESCNDPCKETVPSMETGDLCADTAPTÖKS 780
 DB 721 YYGMPGHTDTMIHEVGHLGLYHVFÖKVSERESCNDPCKETVPSMETGDLCADTAPTÖKS 780
 QY 781 ELCREPEPTSDTCGTRFPGAFPTNYMSTDDNCTDNFTPNÖVARMHCYLDLVYÖÖMTES 840
 DB 781 ELCREPEPTSDTCGTRFPGAFPTNYMSTDDNCTDNFTPNÖVARMHCYLDLVYÖÖMTES 840
 QY 841 RKPTPIPIPMVIGÖTNKSLLTIHMLPISGVVYDRASGSLGACTEDGTFERÖYVHTASSR 900
 DB 841 RKPTPIPIPMVIGÖTNKSLLTIHMLPISGVVYDRASGSLGACTEDGTFERÖYVHTASSR 900
 QY 901 RVCDSGSGYWTPEEAVGPPDVÖDÖCEPSIOAMSPEVHLYHMNMTVPCPTGEGCSLELLFÖHP 960
 DB 901 RVCDSGSGYWTPEEAVGPPDVÖDÖCEPSIOAMSPEVHLYHMNMTVPCPTGEGCSLELLFÖHP 960
 QY 961 VÖADTLTLMTVSFFMESSÖVLFDTTEILLENKESVHLGPLDTFCDILPLTIKLHVDGKVSÖV 1020
 DB 961 VÖADTLTLMTVSFFMESSÖVLFDTTEILLENKESVHLGPLDTFCDILPLTIKLHVDGKVSÖV 1020

QY 1021 KVTYFDERIEIDALLTSÖPHSPLCSGCRPVRYÖVLRDPPFASGLPVVYVTHSHRKFTDVE 1080
 DB 1021 KVTYFDERIEIDALLTSÖPHSPLCSGCRPVRYÖVLRDPPFASGLPVVYVTHSHRKFTDVE 1080
 QY 1081 VTPGÖMYÖYÖVLAÖAGELGEASPLNHIHGAPYCGDGKVSERLGEEDDÖDVLVSÖDGS 1140
 DB 1081 VTPGÖMYÖYÖVLAÖAGELGEASPLNHIHGAPYCGDGKVSERLGEEDDÖDVLVSÖDGS 1140
 QY 1141 KVCELEEGFNCVGEPSLCYMEGÖGICEPERKTSIVDCGIYTPKGYLDÖWATRAYSSHE 1200
 DB 1141 KVCELEEGFNCVGEPSLCYMEGÖGICEPERKTSIVDCGIYTPKGYLDÖWATRAYSSHE 1200
 QY 1201 DKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWFPVASENETÖDDRSÖPEGSÖLKE 1260
 DB 1201 DKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWFPVASENETÖDDRSÖPEGSÖLKE 1260
 QY 1261 DEVLKVCFNRPGEARAIIFILTTDGLVGEHÖQPTVTLYLTÖVRGSNHSÖLTYÖLSCÖH 1320
 DB 1261 DEVLKVCFNRPGEARAIIFILTTDGLVGEHÖQPTVTLYLTÖVRGSNHSÖLTYÖLSCÖH 1320
 QY 1321 NPLIINVTHÖNVLFHHTTSVLNFSÖPRVÖISAVALRTSSRIÖLSAPSNCISEDÖGÖNH 1380
 DB 1321 NPLIINVTHÖNVLFHHTTSVLNFSÖPRVÖISAVALRTSSRIÖLSAPSNCISEDÖGÖNH 1380
 QY 1381 ÖGÖSCIHÖPCÖKÖDSCPSLLLDHADVNVCTSIGPGLMCAITCÖRGFALÖASSGÖYIRPM 1440
 DB 1381 ÖGÖSCIHÖPCÖKÖDSCPSLLLDHADVNVCTSIGPGLMCAITCÖRGFALÖASSGÖYIRPM 1440
 QY 1441 ÖKEILLTCSGHWÖDÖNVSCLPVDCGVPDPSLVNYANFSÖSEGTÖFLKÖRCSISCVPAÖKLÖ 1500
 DB 1441 ÖKEILLTCSGHWÖDÖNVSCLPVDCGVPDPSLVNYANFSÖSEGTÖFLKÖRCSISCVPAÖKLÖ 1500
 QY 1501 GLSPWLTCLEÖGLMSLPEVYCKLECDAPPIILNANLLPHCLÖDNHDVGTICKYECKPGY 1560
 DB 1501 GLSPWLTCLEÖGLMSLPEVYCKLECDAPPIILNANLLPHCLÖDNHDVGTICKYECKPGY 1560
 QY 1561 YVABSAÖGKÖYRNKLLIKÖCLEGGIWEÖGSCIPVCEPPRPVFEGMÖECTNGFSÖDSCVL 1620
 DB 1561 YVABSAÖGKÖYRNKLLIKÖCLEGGIWEÖGSCIPVCEPPRPVFEGMÖECTNGFSÖDSCVL 1620
 QY 1621 NCNÖERÖKPLILCTKEGLMTÖEFKLCENLÖGECPPRPSELNSVEYKÖEGYIGAVCSPL 1680
 DB 1621 NCNÖERÖKPLILCTKEGLMTÖEFKLCENLÖGECPPRPSELNSVEYKÖEGYIGAVCSPL 1680
 QY 1681 CVIPPSDPVWLPEINITADTLEHMMPEVYÖSIVCTGRÖWHPDVLVHÖCIOÖCE 1734
 DB 1681 CVIPPSDPVWLPEINITADTLEHMMPEVYÖSIVCTGRÖWHPDVLVHÖCIOÖCE 1734

RESULT 5
 US-10-675-685-10
 ; Sequence 10, Application US/10675685
 ; Publication No. US20040063134A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Gu, Yizhong
 ; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
 ; FILE REFERENCE: PB0114
 ; CURRENT APPLICATION NUMBER: US/10/675,685
 ; CURRENT FILING DATE: 2003-09-30
 ; PRIOR APPLICATION NUMBER: US 60/207,456
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 60/236,359
 ; PRIOR FILING DATE: 2000-09-27
 ; NUMBER OF SEQ ID NOS: 1881
 ; SOFTWARE: Aeomica Sequence Listing Engine
 ; SEQ ID NO 10
 ; LENGTH: 1770
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-675-685-10

Query Match		96.5%;	Score 9507;	DB 15;	Length 1770;
Best Local Similarity		99.9%;	Pred. No. 0;		
Matches 1732;		Conservative	0;	Mismatches	2;
				Indels	0;
				Gaps	0;
QY	1	MMCLKILRISLAILAGMALCSANSELGWTREKSLVEREHLNOVLLGEBCWLGAQVRRPR	60		
Db	1	MMCLKILRISLAILAGMALCSANSELGWTREKSLVEREHLNOVLLGEBCWLGAQVRRPR	60		
QY	61	ASPOHILFGVYPSRAGNYLRPYVGEQEIHTGSRKSPDTEGNAVSLVPPDLTENPAGLRG	120		
Db	61	ASPOHILFGVYPSRAGNYLRPYVGEQEIHTGSRKSPDTEGNAVSLVPPDLTENPAGLRG	120		
QY	121	AVEEPAAPWVGDSPIGQSELLGDDAYLGNORSKESLGEAGIQKGSAMATTITTAIFTTL	180		
Db	121	AVEEPAAPWVGDSPIGQSELLGDDAYLGNORSKESLGEAGIQKGSAMATTITTAIFTTL	180		
QY	181	NEPKPETORRGWAKSRQRORQVWKRAEDGQSGISSHFQMPWKSLKHRVKKSPPEESN	240		
Db	181	NEPKPETORRGWAKSRQRORQVWKRAEDGQSGISSHFQMPWKSLKHRVKKSPPEESN	240		
QY	241	QNGEGSYREAEFTENSQVGLPILYFSGRRELLRPEVLAEIPREAFTEAWVKPEGQON	300		
Db	241	QNGEGSYREAEFTENSQVGLPILYFSGRRELLRPEVLAEIPREAFTEAWVKPEGQON	300		
QY	301	NPAIIAGVFDNCSTVSDKGWALGIRSGKDKGRDARFFFSLCTDRYKATILISHSRQ	360		
Db	301	NPAIIAGVFDNCSTVSDKGWALGIRSGKDKGRDARFFFSLCTDRYKATILISHSRQ	360		
QY	361	PGTWTHVAATYDGRHMALYVDGTQVASSLDGSPLNSPFMASCRSLLGDSSEDGHYFR	420		
Db	361	PGTWTHVAATYDGRHMALYVDGTQVASSLDGSPLNSPFMASCRSLLGDSSEDGHYFR	420		
QY	421	GHLGTLVFWSTALPQSHFQSSQSSGEEBATDVLTAEPVNTIEWPFRDEKYPRLV	480		
Db	421	GHLGTLVFWSTALPQSHFQSSQSSGEEBATDVLTAEPVNTIEWPFRDEKYPRLV	480		
QY	481	LQGFEPPEILSPQLCGQTVCDNVELLISQYNGWYPLRGEKVIROYVNI CDDEGLNP	540		
Db	481	LQGFEPPEILSPQLCGQTVCDNVELLISQYNGWYPLRGEKVIROYVNI CDDEGLNP	540		
QY	541	IVSEEQIRLOHEALNEAFSRYNISWQLSVHQVHNSLRRVVLVNCPEPSKIGNDHCDPEC	600		
Db	541	IVSEEQIRLOHEALNEAFSRYNISWQLSVHQVHNSLRRVVLVNCPEPSKIGNDHCDPEC	600		
QY	601	EHPLTGYDGDGCRLOGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQVADVRKTCFDPD	660		
Db	601	EHPLTGYDGDGCRLOGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQVADVRKTCFDPD	660		
QY	661	SPKRAYMSVKELKEALQLNSTHFLNIYFASSVREBDLAGAATWPMWCKDAVTHLGIVLSPA	720		
Db	661	SPKRAYMSVKELKEALQLNSTHFLNIYFASSVREBDLAGAATWPMWCKDAVTHLGIVLSPA	720		
QY	721	YYGMPGHTDTMIHEVGHVLGLYHVFKEGVSERESCNDPCKETVPSMETGDLCADTAPTPKS	780		
Db	721	YYGMPGHTDTMIHEVGHVLGLYHVFKEGVSERESCNDPCKETVPSMETGDLCADTAPTPKS	780		
QY	781	ELCREPEPTSDTCGTRFPGAFPTNMSYTDNCTDNFTPNQVARMHCYLDLVYQQWTES	840		
Db	781	ELCREPEPTSDTCGTRFPGAFPTNMSYTDNCTDNFTPNQVARMHCYLDLVYQQWTES	840		
QY	841	RKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLCGACTEDGTROYVHTASSR	900		
Db	841	RKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLCGACTEDGTROYVHTASSR	900		
QY	901	RVCDSGGYWTPEEAVGPDPVDQCEPSLQAMSPEVHLHYHNMVTPCPTGCSLELLFQHP	960		
Db	901	RVCDSGGYWTPEEAVGPDPVDQCEPSLQAMSPEVHLHYHNMVTPCPTGCSLELLFQHP	960		
QY	961	VQADTLTLWTSFMESSQVLFDTIELLENKESVHLGPLDTFCDPLITIKLHV DGKVS	1020		
Db	961	VQADTLTLWTSFMESSQVLFDTIELLENKESVHLGPLDTFCDPLITIKLHV DGKVS	1020		
QY	1021	KVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVVTSHRKFTDVE	1080		

Db	1021	KVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVVTSHRKFTDVE	1080		
QY	1081	VTPGQMYQOVLAEAGELGEASPLNIHIGAPYCGDGKVSERLGECDGDLVSGDGCS	1140		
Db	1081	VTPGQMYQOVLAEAGELGEASPLNIHIGAPYCGDGKVSERLGECDGDLVSGDGCS	1140		
QY	1141	KVCELBEENVCVGEPSLCYMEGDGICEPFERKTSIVDCGIYTPKGYLDOWATRAYSSHE	1200		
Db	1141	KVCELBEENVCVGEPSLCYMEGDGICEPFERKTSIVDCGIYTPKGYLDOWATRAYSSHE	1200		
QY	1201	DKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWPCVASENETQDDRSQPEGLKKE	1260		
Db	1201	DKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWPCVASENETQDDRSQPEGLKKE	1260		
QY	1261	DEWMLKVCENRPGEARAIFILTTDGLVPEGHQOPTVTLYLTDVGSNHS LGTYGLSCQH	1320		
Db	1261	DEWMLKVCENRPGEARAIFILTTDGLVPEGHQOPTVTLYLTDVGSNHS LGTYGLSCQH	1320		
QY	1321	NPLIINVTHQONVLFHHTTSVLLNFSSPRVGISAVALRTSSRIGLSAPSN CISEDEGQNH	1380		
Db	1321	NPLIINVTHQONVLFHHTTSVLLNFSSPRVGISAVALRTSSRIGLSAPSN CISEDEGQNH	1380		
QY	1381	QGSCHRPCGKQDSCPSLLLDHADVYVNCISIGPGLMCAITCQRFALQASSGQYIRPM	1440		
Db	1381	QGSCHRPCGKQDSCPSLLLDHADVYVNCISIGPGLMCAITCQRFALQASSGQYIRPM	1440		
QY	1441	QKEILLTCSSGHWQDQNSCLPVDGVPDPSLVNYANFSCSEGTKFLKCSISCVPAKLQ	1500		
Db	1441	QKEILLTCSSGHWQDQNSCLPVDGVPDPSLVNYANFSCSEGTKFLKCSISCVPAKLQ	1500		
QY	1501	GLSPWLTCLEDLMSLPEVYCKLECDAPRIILNANLLPHCLQDNHDVGTICKYECKPGY	1560		
Db	1501	GLSPWLTCLEDLMSLPEVYCKLECDAPRIILNANLLPHCLQDNHDVGTICKYECKPGY	1560		
QY	1561	YVAESAEGYRNKLIKIQCLEGGIWEQSGCIPVCEPBPVFEGMTCTNGFSLDSQCVL	1620		
Db	1561	YVAESAEGYRNKLIKIQCLEGGIWEQSGCIPVCEPBPVFEGMTCTNGFSLDSQCVL	1620		
QY	1621	NCNQERKLPILCTKEGLWTOEFKLCENLQGECPRPPELSINSVEYKCEQGYIGAVCSPL	1680		
Db	1621	NCNQERKLPILCTKEGLWTOEFKLCENLQGECPRPPELSINSVEYKCEQGYIGAVCSPL	1680		
QY	1681	CVIPSPDPVWLPENITADTLEHMMPEYKQIVCTGRQWHPDPVLVHCIO SCE	1734		
Db	1681	CVIPSPDPVWLPENITADTLEHMMPEYKQIVCTGRQWHPDPVLVHCIO SCE	1734		

RESULT 6	
US-09-827-998-16	
; Sequence 16, Application US/09827998	
; Patent No. US20020102252A1	
; GENERAL INFORMATION:	
; APPLICANT: Gu, Yizhong	
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E	
; FILE REFERENCE: MDLMORF-8	
; CURRENT APPLICATION NUMBER: US/09/827, 998	
; PRIOR APPLICATION NUMBER: 2001-04-06	
; PRIOR FILING DATE: 2000-05-26	
; PRIOR APPLICATION NUMBER: US 60/207,456	
; PRIOR FILING DATE: 2000-09-27	
; NUMBER OF SEQ ID NOS: 1881	
; SOFTWARE: Aeomica Sequence Listing Engine	
; SEQ ID NO 16	
; LENGTH: 1385	
; TYPE: PRT	
; ORGANISM: Homo sapiens	
US-09-827-998-16	
Query Match	
Best Local Similarity	
74.7%;	
Score 7363;	
DB 9;	
Length 1385;	

Matches 1379;		Conservative	0;	Mismatches	6;	Indels	406;	Gaps	1;
Qy	1	MMCLKILRLISLAILAGWALCSANSELGTRKKS	1	VEREHLNOVLLEGBRCWLGA	KVRPR	60			
Db	1	MMCLKILRLISLAILAGWALCSANSELGTRKKS	1	VEREHLNOVLLEGBRCWLGA	KVRPR	60			
Qy	61	ASPOHHLFGVYPSRAGNYLRPYVGEQEIHTHGRSKPDTEGNAVSLVPPDLTENPAGLRG	120						
Db	61	ASPOHHLFGVYPSRAGNYLRPYVGEQEIHTHGRSKPDTEGNAVSLVPPDLTENPAGLRG	120						
Qy	121	AVEEPAPWVGDSPIQOSELLGDDDAYLGNORSKESLGEAGIQKGSAMATTTTATFTTL	180						
Db	121	AVEEPAPWVGDSPIQOSELLGDDDAYLGNORSKESLGEAGIQKGSAMATTTTATFTTL	180						
Qy	181	NEPKPETORRGWAKSRQRORQWKRRAEDGQDSGISSHFQWPVKHSLKRVKKSPEESN	240						
Db	181	NEPKPETORRGWAKSRQRORQWKRRAEDGQDSGISSHFQWPVKHSLKRVKKSPEESN	240						
Qy	241	ONGEGSYREAEFTFNSQVGLPILYFSGRRERLLRPEVLAEIPREAFTEAWKPEGQON	300						
Db	241	ONGEGSYREAEFTFNSQVGLPILYFSGRRERLLRPEVLAEIPREAFTEAWKPEGQON	300						
Qy	301	NPAIAGVFDNCSTHTVSDKGWALGIRSGDKGKRDARFFSLCTDRVKKATILISHSRYO	360						
Db	301	NPAIAGVFDNCSTHTVSDKGWALGIRSGDKGKRDARFFSLCTDRVKKATILISHSRYO	360						
Qy	361	PGTWTVAATYDGRHMAALYVDGTQVASSLDQSGPLNSPFMASCRSLLLGGDSSEDGHYFR	420						
Db	361	PGTWTVAATYDGRHMAALYVDGTQVASSLDQSGPLNSPFMASCRSLLLGGDSSEDGHYFR	420						
Qy	421	GHLGTLVFWSTALPQSHFOHSSQHSGBEATDLVLTASFEPVNTWVFRDEKYPRLLEV	480						
Db	421	GHLGTLVFWSTALPQSHFOHSSQHSGBEATDLVLTASFEPVNTWVFRDEKYPRLLEV	480						
Qy	481	LQGFEEPEBELSLPQLPRLCGQTVCDNVELISQYNGWPLRGEKVIROYVNICDDEGLNP	540						
Db	481	LQGFEEPEBELSLPQLPRLCGQTVCDNVELISQYNGWPLRGEKVIROYVNICDDEGLNP	540						
Qy	541	IVSEEQIRLOHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNGEPSKIGNDHCDPEC	600						
Db	541	IVSEEQIRLOHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNGEPSKIGNDHCDPEC	600						
Qy	601	EHPLTGYDGDCLRLQGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQYADVVRTKTCFDPD	660						
Db	601	EHPLTGYDGDCLRLQGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQYADVVRTKTCFDPD	660						
Qy	661	SPKRAYNSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWPDKDAVTHLGIVLSPA	720						
Db	661	SPKRAYNSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWPDKDAVTHLGIVLSPA	720						
Qy	721	YYGMPGHTDTMIEHVGVLGLYHVPKVSERESCNDPCKETVPSMETGDLCA DTAPT PKS	780						
Db	721	YYGMPGHTDTMIEHVGVLGLYHVPKVSERESCNDPCKETVPSMETGDLCA DTAPT PKS	780						
Qy	781	ELCREPEPTSDTCGTRFPGAFNTYMSYTDNCTDNFTPNQVARMHCYLDLVYQOWTES	840						
Db	781	ELCREPEPTSDTCGTRFPGAFNTYMSYTDNCTDNFTPNQVARMHCYLDLVYQOWTES	840						
Qy	841	RKPTPIPIPMVIGQTNKSLTIHMLPPLISGVVYDRASGSLCGACTEDGTFRQYVHTASSR	900						
Db	841	RKPTPIPIPMVIGQTNKSLTIHMLPPLISGVVYDRASGSLCGACTEDGTFRQYVHTASSR	900						
Qy	901	RVCDSGTYWTPBEAVGPPDVDQCEPSIQAWSPEVHLYHMMNTVPCPTEGCSLELLFQHP	960						
Db	901	RVCDSGTYWTPBEAVGPPDVDQCEPSIQAWSPEVHLYHMMNTVPCPTEGCSLELLFQHP	960						
Qy	961	VOADTLTLWVTSFFMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKLHVDGKVSQV	1020						
Db	961	VOADTLTLWVTSFFMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKLHVDGKVSQV	1020						
Qy	1021	KVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVVTSHSRKFTDVE	1080						
Db	1021	KVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVVTSHSRKFTDVE	1080						

Qy	1081	VTPGQMYQOYLAELAGGELGEASPLNHIHGAPYCGDGKVSERLGEBCDDGDLVSGDCS	1140
Db	675	VTPGQMYQOYLAELAGGELGEASPLNHIHGAPYCGDGKVSERLGEBCDDGDLVSGDCS	734
Qy	1141	KVCELEEGFNCVGEPSLCYMYEGDGI CEPPERKTSIVDCGIYTPKGYLDQWATRAYSSHE	1200
Db	735	KVCELEEGFNCVGEPSLCYMYEGDGI CEPPERKTSIVDCGIYTPKGYLDQWATRAYSSHE	794
Qy	1201	DKKCPVSLVTGEPHSLICTSYHPDLBNHRLTGWFPCVASENETODRSEQPEGLKKE	1260
Db	795	DKKCPVSLVTGEPHSLIRTSYHPDLBNHRLTGWFPCVASENETODRSEQPEGLKKE	854
Qy	1261	DEVWLKVCFNRPGEARAFIFLTTDGLVPEGHQOPTVTLVLTQVRSNHSLSGTGLSCQH	1320
Db	855	DEVWLKVCFNRPGEARAFIFLTTDGLVPEGHQOPTVTLVLTQVRSNHSLSGTGLSCQH	914
Qy	1321	NPLIINVTHQONVLFHHTTSVLLNBSRPVGISAVALRTSSRIGLSAPSNCSISEDEGQNH	1380
Db	915	NPLIINVTHQONVLFHHTTSVLLNBSRPVGISAVALRTSSRIGLSAPSNCSISEDEGQNH	974
Qy	1381	QGSQCHRPCKQDSCPSLLDHDADVNCSTSIGPGLMKCAITCQRFALQASSGQYIRPM	1440
Db	975	QGSQCHRPCKQDSCPSLLDHDADVNCSTSIGPGLMKCAITCQRFALQASSGQYIRPM	1034
Qy	1441	QKEILLTCSSGHWQDQNSCLPYDGVDPDSLWNYANFSCSEGTFLKRCISISCVPAKLQ	1500
Db	1035	QKEILLTCSSGHWQDQNSCLPYDGVDPDSLWNYANFSCSEGTFLKRCISISCVPAKLQ	1094
Qy	1501	GLSPWLTCLEEDGLMSLPEVYCKLECDAPRIILNANLLPHCLQDNHDVGTICKYECKPGY	1560
Db	1095	GLSPWLTCLEEDGLMSLPEVYCKLECDAPRIILNANLLPHCLQDNHDVGTICKYECKPGY	1154
Qy	1561	YVAESAEGKVRNKLKIQCLEGGIWEQSCIPVCEPPPVFEGMYECTNGFSLDSQCVL	1620
Db	1155	YVAESAEGKVRNKLKIQCLEGGIWEQSCIPVCEPPPVFEGMYECTNGFSLDSQCVL	1214
Qy	1621	NCNQEREXLPILCTKEGLWTOEFKLCENLQGECPRPPELSNVEYKCEQGYIGAVCSPL	1680
Db	1215	NCNQEREXLPILCTKEGLWTOEFKLCENLQGECPRPPELSNVEYKCEQGYIGAVCSPL	1274
Qy	1681	CVIPSPDPVMLPENITADTL EHMMEPVYQSI VCTGRQWHPDPVLVHC IQSC EFPQADG	1740
Db	1275	CVIPSPDPVMLPENITADTL EHMMEPVYQSI VCTGRQWHPDPVLVHC IQSC EFPQADG	1334
Qy	1741	WCDTINRAYCHYDGDCCSSTLSKKYIPFAADCDLDECTCRDPAEENQ	1791
Db	1335	WCDTINRAYCHYDGDCCSSTLSKKYIPFAADCDLDECTCRDPAEENQ	1385

RESULT 7
 US-10-675-685-16
 ; Sequence 16, Application US/10675685
 ; Publication No. US20040063134A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Gu, Yizhong
 ; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
 ; FILE REFERENCE: PB0114
 ; CURRENT APPLICATION NUMBER: US/10/675,685
 ; PRIOR FILING DATE: 2003-09-30
 ; PRIOR APPLICATION NUMBER: US 60/207,456
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 60/236,359
 ; NUMBER OF SEQ ID NOS: 1881
 ; SOFTWARE: Aeomica Sequence Listing Engine
 ; SEQ ID NO 16
 ; LENGTH: 1385
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-675-685-16

Query Match									
74.7%; Score 7363; DB 15; Length 1385;									
Best Local Similarity 77.0%; Pred. No. 0;									
Matches 1379; Conservative 0; Mismatches 6; Indels 406; Gaps 1;									
QY	1	MMCLKILRLISLAILAGMALCSANSELGWRKKS	LVEREHLNQVLLBGERCWLGA	KVRPR	60				
Db	1	MMCLKILRLISLAILAGMALCSANSELGWRKKS	LVEREHLNQVLLBGERCWLGA	KVRPR	60				
QY	61	ASPOHHLFGVYPSRAGNYLRPYVGEQEIHTH	TGRSKPDTEGNAVSLVPD	LTENPAGLRG	120				
Db	61	ASPOHHLFGVYPSRAGNYLRPYVGEQEIHTH	TGRSKPDTEGNAVSLVPD	LTENPAGLRG	120				
QY	121	AVEEPAAPWYDSDPIGQSELGDDDAYLGNQ	RSKESLGEAGIQKGSAMA	TTTIAFTTL	180				
Db	121	AVEEPAAPWYDSDPIGQSELGDDDAYLGNQ	RSKESLGEAGIQKGSAMA	TTTIAFTTL	180				
QY	181	NEPKPETQRRGWAKSRQRRQVWKRRRAEDG	QSDGISSHFQPMFKSLK	HRVKKSPPEESN	240				
Db	181	NEPKPETQRRGWAKSRQRRQVWKRRRAEDG	QSDGISSHFQPMFKSLK	HRVKKSPPEESN	240				
QY	241	ONGEGSYREAFETNSQVGLPILYFSGRRE	LLRPEVLAEIPREAFTEA	WVKPEGQON	300				
Db	241	ONGEGSYREAFETNSQVGLPILYFSGRRE	LLRPEVLAEIPREAFTEA	WVKPEGQON	300				
QY	301	NPAIAGVFNCSHTVSDKGWALGIRSGKDK	RDAFFFSLCTDRVKKA	TILISHSR	YQ 360				
Db	301	NPAIAGVFNCSHTVSDKGWALGIRSGKDK	RDAFFFSLCTDRVKKA	TILISHSR	YQ 360				
QY	361	PGTWHVAATYDGRHMA	LYVDGTQVASSLDQSGPLNSPF	MASCRL	LLGGDS	SEDGHYFR	420		
Db	361	PGTWHVAATYDGRHMA	LYVDGTQVASSLDQSGPLNSPF	MASCRL	LLGGDS	SEDGHYFR	420		
QY	421	GHLGTLVFWSTALPQSHFO	SSSQHSSGEE	EATDVL	TASFEP	VNTENVPR	DEKYRLE	480	
Db	421	GHLGTLVFWSTALPQSHFO	SSSQHSSGEE	EATDVL	TASFEP	VNTENVPR	DEKYRLE	480	
QY	307	-----	-----	-----	-----	-----	306		
Db	307	-----	-----	-----	-----	-----	306		
QY	481	LQGFEP	EPILSP	LPPLCQGTVC	DNVELISQYNG	WPLRGEK	VI	RYQV	YVNI
Db	481	LQGFEP	EPILSP	LPPLCQGTVC	DNVELISQYNG	WPLRGEK	VI	RYQV	YVNI
QY	307	-----	-----	-----	-----	-----	306		
Db	307	-----	-----	-----	-----	-----	306		
QY	541	IVSEEQ	IRLOHEALNEAF	SRYNISWQLSVHQ	YANSTLRHR	VVLV	NC	EP	SKI
Db	541	IVSEEQ	IRLOHEALNEAF	SRYNISWQLSVHQ	YANSTLRHR	VVLV	NC	EP	SKI
QY	307	-----	-----	-----	-----	-----	306		
Db	307	-----	-----	-----	-----	-----	306		
QY	601	EHPL	TGYDGC	RLQRCY	SWNR	RDGLCH	VE	CNM	MLN
Db	601	EHPL	TGYDGC	RLQRCY	SWNR	RDGLCH	VE	CNM	MLN
QY	307	-----	-----	-----	-----	-----	306		
Db	307	-----	-----	-----	-----	-----	306		
QY	661	SPKRAY	SVKELKEALQ	LNSTHPLN	YFAS	VRED	L	AG	ATW
Db	661	SPKRAY	SVKELKEALQ	LNSTHPLN	YFAS	VRED	L	AG	ATW
QY	307	-----	-----	-----	-----	-----	306		
Db	307	-----	-----	-----	-----	-----	306		
QY	721	YGM	PGHTD	TMHE	VHGLGLYH	VFKG	V	SER	B
Db	721	YGM	PGHTD	TMHE	VHGLGLYH	VFKG	V	SER	B
QY	315	YGM	PGHTD	TMHE	VHGLGLYH	VFKG	V	SER	B
Db	315	YGM	PGHTD	TMHE	VHGLGLYH	VFKG	V	SER	B
QY	781	EL	CREPE	PTSD	TCGTR	PGAP	FTN	YMS	YTD
Db	781	EL	CREPE	PTSD	TCGTR	PGAP	FTN	YMS	YTD
QY	375	EL	CREPE	PTSD	TCGTR	PGAP	FTN	YMS	YTD
Db	375	EL	CREPE	PTSD	TCGTR	PGAP	FTN	YMS	YTD
QY	841	RK	PTPI	PIPM	VI	GQTN	KS	LT	I
Db	841	RK	PTPI	PIPM	VI	GQTN	KS	LT	I
QY	435	RK	PTPI	PIPM	VI	GQTN	KS	LT	I
Db	435	RK	PTPI	PIPM	VI	GQTN	KS	LT	I
QY	901	R	V	C	D	S	S	G	Y
Db	901	R	V	C	D	S	S	G	Y
QY	495	R	V	C	D	S	S	G	Y
Db	495	R	V	C	D	S	S	G	Y
QY	961	V	O	A	D	T	L	T	L
Db	961	V	O	A	D	T	L	T	L
QY	555	V	O	A	D	T	L	T	L
Db	555	V	O	A	D	T	L	T	L
QY	1021	K	V	T	F	D	E	R	I
Db	1021	K	V	T	F	D	E	R	I

Db	615	KV	T	F	D	E	R	I	E	I	D	A	L	L	T	S	Q	P	H	S	P	L	C	S	G	C	R	P	V	R	Y	Q	V	L	R	D	P	P	F	A	S	G	L	P	V	V	T	H	S	R	K	F	T	D	V	E	674			
QY	1081	V	T	P	G	M	Y	Q	Y	V	L	A	E	A	G	E	L	G	E	A	S	P	L	N	H	I	H	A	P	Y	C	G	D	K	V	S	E	R	L	G	E	C	D	D	G	L	V	S	G	D	C	S	1140							
Db	675	V	T	P	G	M	Y	Q	Y	V	L	A	E	A	G	E	L	G	E	A	S	P	L	N	H	I	H	A	P	Y	C	G	D	K	V	S	E	R	L	G	E	C	D	D	G	L	V	S	G	D	C	S	734							
QY	1141	K	V	C	E	L	E	G	F	N	C	V	G	E	P	S	L	C	M	Y	E	G	D	C	E	P	F	E	R	K	T	S	I	V	D	C	G	I	Y	T	P	K	G	Y	L	D	O	M	A	T	R	A	Y	S	S	H	E	1200		
Db	735	K	V	C	E	L	E	G	F	N	C	V	G	E	P	S	L	C	M	Y	E	G	D	C	E	P	F	E	R	K	T	S	I	V	D	C	G	I	Y	T	P	K	G	Y	L	D	O	M	A	T	R	A	Y	S	S	H	E	794		
QY	1201	D	K	K	C	P	V	S	L	V	T	G	E	P	H	S	L	I	C	T	S	Y	H	P	D	L	P	N	H	R	P	L	T	G	W	F	P	C	V	A	S	E	N	E	T	Q	D	D	R	S	E	Q	P	E	G	S	L	K	E	1260
Db	795	D	K	K	C	P	V	S	L	V	T	G	E	P	H	S	L	I	C	T	S	Y	H	P	D	L	P	N	H	R	P	L	T	G	W	F	P	C	V	A	S	E	N	E	T	Q	D	D	R	S	E	Q	P	E	G	S	L	K	E	854
QY	1261	D	E	V	M	L	K	V	C	F	N	R	P	G	E	A	R	A	I	F	I	L	T	D	G	L	V	P	G	E	H	O	O	P	T	V	T	L	Y	L	T	D	V	R	G	S	N	H	S	L	G	T	Y	G	L	S	C	Q	H	1320
Db	855	D	E	V	M	L	K	V	C	F	N	R	P	G	E	A	R	A	I	F	I	L	T	D	G	L	V	P	G	E	H	O	O	P	T	V	T	L	Y	L	T	D	V	R	G	S	N	H	S	L	G	T	Y	G	L	S	C	Q	H	914
QY	1321	N	P	L	I	N	T	H	Q	N	V	L	F	H	T	T	S	V	L	N	F	S	S	P	R	V	G	I	S	A	V	A	L	R	T	S	R	I	G	I	S	A	P	S	N	C	I	S	E	D	E	G	Q	N	H	1380				
Db	915	N	P	L	I	N	T	H	Q	N	V	L	F	H	T	T	S	V	L	N	F	S	S	P	R	V	G	I	S	A	V	A	L	R	T	S	R	I	G	I	S	A	P	S	N	C	I	S	E	D	E	G	Q	N	H	974				
QY	1381	Q	G	S	C	I	H	R	P	C	G	K	O	D	S	C	P	S	L	L	D	H	A	D	V	N	C	T	S	I	G	P	L	M	K	A	T	T	C	O	R	G	F	A	L	Q	A	S	S	E	Q	Y	I	R	L	M	1440			
Db	975	Q	G	S	C	I	H	R	P	C	G	K	O	D	S	C	P	S	L	L	D	H	A	D	V	N	C	T	S	I	G	P	L	M	K	A	T	T	C	O	R	G	F	A	L	Q	A	S	S	E	Q	Y	I	R	L	M	1034			
QY	1441	Q	K	E	I	L	T	C	S	S	G	H	M	D	Q	N	V	S	C	L	P	V	D	C	G	V	P	D	S	L	V	N	Y	A	N	F	S	C	S	E	G	T	K	F	L	K	R	C	S	I	S	C	V	P	A	K	L	Q 1500		
Db	1035	Q	K	E	I	L	T	C	S	S	G	H	M	D	Q	N	V	S	C	L	P	V	D	C	G	V	P	D	S	L	V	N	Y	A	N	F	S	C	S	E	G	T	K	F	L	K	R	C	S	I	S	C	V	P	A	K	L	Q 1094		
QY	1501	G	L	S	P	W	L	T	C	L	E	D	G	L	M	S	L	P	E	V	Y	C	K	L	E	D	A	P	I	I	L	N	A	N	L	L	P	H	C	L	D	N	H	D	V	G	T	I	C	K	E	C	K	P	G	Y 1560				
Db	1095	G	L	S	P	W	L	T	C	L	E	D	G	L	M	S	L	P	E	V	Y	C	K	L	E	D	A	P	I	I	L	N	A	N	L	L	P	H	C	L	D	N	H	D	V	G	T	I	C	K	E	C	K	P	G	Y 1154				
QY	1561	Y	V	A	E	S	A	B	E	G	K	V	R	N	K	L	K	I	Q	C	L	E	G	I	W	E	G	S	C	I	P	V	C	E	P	P	P	P	V	F	E	G	M	E	C	T	N	G	S	L	D	S	Q	C	V	L 1620				
Db	1155	Y	V	A	E	S	A	B	E	G	K	V	R	N	K	L	K	I	Q	C	L	E	G	I	W	E	G	S	C	I	P	V	C	E	P	P	P	P	V	F	E	G	M	E	C	T	N	G	S	L	D	S	Q	C	V	L 1214				
QY	1621	N	C	N	O	E	R	E	K	L	P	I	L	C	T	K	E	G	L	W	T	Q	E	F	K	C	E	N	L	Q	E	C	P	R	P	P	S	E	L	N	S	V	E	X	C	E	O	G	Y	I	G	A	V	C	S	P	L 1680			
Db	1215	N	C	N	O	E	R	E	K	L	P	I	L	C	T	K	E	G	L	W	T	Q	E	F	K	C	E	N	L	Q	E	C	P	R	P	P	S	E	L	N	S	V	E	X	C	E	O	G	Y	I	G	A	V	C	S	P	L 1274			
QY	1681	C	V	I	P	P	S	D	P	W	L	P	E	N	I	T	A	D	T	L	E	H	M	E	P	V	K	Q	S	I	V	T	G	R	R	Q	W	H	P	D	P	V	L	V	H	C	I	Q	S	C	E	P	F	Q	A	D	G 1740			
Db	1275	C	V	I	P	P	S	D	P	W	L	P	E	N	I	T	A	D	T	L	E	H	M	E	P	V	K	Q	S	I	V	T	G	R	R	Q	W	H	P	D	P	V	L	V	H	C	I	Q	S	C	E	P	F	Q	A	D	G 1334			
QY	1741	W	C	D	T	I	N	N	A	V	C	H	Y	D	G	D	C	S	S	T	L	S	K	V	I	P	A	A	D	C	D	L	D	E	C	T	C	R	D	P	A	E	N	Q 1791																
Db	1335	W	C	D	T	I	N	N	A	V	C	H	Y	D	G	D	C	S	S	T	L	S	K	V	I	P	A	A	D	C	D	L	D	E	C	T	C	R	D	P	A	E	N	Q 1385																
RESULT 8																																																												
US-09-983-025-25																																																												
; Sequence 25, Application US/09983025																																																												
; Publication No. US20030124529A1																																																												
; GENERAL INFORMATION:																																																												
; APPLICANT: OXVIG, Claus																																																												
; APPLICANT: OVERGAARD, Michael T.																																																												
; TITLE OF INVENTION: PREGNANCY-ASSOCIATED PLASMA PROTEIN-A2 (PAPP-A2)																																																												
; FILE REFERENCE: OXVIG=1A																																																												
; CURRENT APPLICATION NUMBER: US/09/983, 025																																																												
; CURRENT FILING DATE: 2001-10-22																																																												
; PRIOR APPLICATION NUMBER: US 60/241, 840																																																												
; PRIOR FILING DATE: 2000-10-20																																																												
; PRIOR APPLICATION NUMBER: DK PA 2000 01571																																																												
; PRIOR FILING DATE: 2000-10-20																																																												
; NUMBER OF SEQ ID NOS: 25																																																												
; SOFTWARE: PatentIn version 3.1																																																												
; SEQ ID NO 25																																																												
; LENGTH: 1627																																																												
; TYPE: PRT																																																												
; ORGANISM: Homo sapiens																																																												

US-09-983-025-25

Query Match	39.7%;	Score 3916.5;	DB 10;	Length 1627;
Best Local Similarity	45.8%;	Pred. No. 1.3e-289;		
Matches 718;	Conservative 296;	Mismatches 499;	Indels 53;	Gaps 25;

Qy	249	REAETPNSOVGLP--ILYSGRRERL-LLRPEVLAEIPREAFTVEAMVKEGGONPAI	305
Db	80	REARGATEEPSPPSRALYFSGEGEQLRVLRADL--ELPRDAFTLQVWLRAEGGORSPAVI	137
Qy	306	AGVFDCNCSHTVSDKGWALGIRSGKDKRKDARFFFSLCTDRVKKATILISHSRYPQGTWT	365
Db	138	TGLYDKCSYISRDRGWVVGIIHTISDQDNKDPRYFFSLKTRARQVTTINAHRSYLPQVW	197
Qy	366	HVAATYDGRHMALYVDGTQVASSLDQSGPLNSPFMASCRSILLGDSSDGHYFRGHLGT	425
Db	198	YLAATYDQGFMKLYVNGAQVATSGEQVGI FSPLTQCKKVLMLGG--SALNHNRYGYLEH	255
Qy	426	LFWSTALPQSHFQHSQHSSEBEATDVLVTASFEPVNTENVYFRDEKYPRLV--LOG	483
Db	256	FSLMKVARTQREILSDMETHGAHTALPQLLQENMDNVGAMSPMKDGSSPKVEFSNAG	315
Qy	484	FEPEPEILSPLOPPLCGQIVCNVELISQYNGYWPRLGEKYIRQVYVNICDEGLNPIS	543
Db	316	FLLD---TSLPPLCGQILCNDTEVIASYNQLSSFRQPKVVRVYNLYEDDHKNPIVT	371
Qy	544	EEQIRLOHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNGEPSKIGNDHCDPECEHP	603
Db	372	REQVDFQHHQLAFAFKQYNISWELDVLEVSNSSLRRLILANCDISKIGDENDCPECNHT	431
Qy	604	LTYDGGDCR--LOGRCYSWNRDGLCHEVCNNMLNDFDGDCCDQVADVRCCTCFDPDSP	662
Db	432	LTHDGDGDCRHLRHPAFVKKQHNVCMDMCNRYERFNFDEGCEDBEITNVQTCTCFDPDSP	491
Qy	663	KRAYMSVKELKEALQLNSTHEFLNIYFASSVREDLAGAATWPKDAVTHLGGIVLSPAY	722
Db	492	HRAVLDVNELKNILKLDGSTHLNIFPAKSSBEELAGVATWPKDALMHLGGIVLNPSEY	551
Qy	723	GMPGHTDTMIHEVGHVGLYHVFKGVSERESCNDPCKEIVPSPMETGDLCADTAPTPKSEL	782
Db	552	GMPGHTHTMIHEIGHSLGLYHVFKGISEIQSCSDPCMETESFETGDLCDNTNPAFKHKS	611
Qy	783	CREPEPTSDTCGFTRFPGADPFTNYMSYTDNCTDNFTPNQVARMHCYLDLVYQOWTESRK	842
Db	612	CGDPGPNDDTCGFHSFENTPYNNFMSYADDDCTDSFTPNQVARMHCYLDLVYQOWPSRK	671
Qy	843	PTPIPIPPMWIGQTNKSLTIHMLPISGVVYDRASGSLCGACTEDGTERQYVHTASSRRV	902
Db	672	PAPVALAPQVLGHTTDSVTLWFPPIDGHFFERELGSACHLCLEGRILVQYASNASSPMP	731
Qy	903	CDSGSGYTPPEAVGPRPDVQCEPSLQAWSPEVHLYHNMNTVPCP--TEGCSLELFGHPV	961
Db	732	CSPSGHWSPREAEGHPVEQPCSSVRTWSPNSAVNPHTVBPACPEPQGCYLELBFLYPL	791
Qy	962	QADTLTLWVT--SPFMESGOVLFDTEILLNKESVHLGPLDTFCDIPLTIKL-HVDSKVS	1018
Db	792	VPESLTIWTVFVSTWDSSGAVNDIKLAVSGKNISLGPONVFCDVPLTIRLMDVGEEVY	851
Qy	1019	GVKVYTPDERIEIDAALLTSQPHSPLCSGCRPVRYQVLRBDFPAGSLPVVVTTHSHRKFTD	1078
Db	852	GIQIYTLDEHLEIDAAMLTSTADTPLCLQCKPLKYKVRDPLQMDVASIL-HLNRKFVD	910
Qy	1079	VEVTPGOMYQOVLAEAGBELGEASPLPLNIHGAPYCGDGKYSERLGEBCDDGDLVSGDG	1138
Db	911	MDLNLGVSYYQYVWITISGIESESEPSPAVTYIHGRGYCGDGI IQKDQGEQCDMDMKINGDG	970
Qy	1139	CSKVCELEBEGFNCVGEPSLCYMYEGDICEPPEKTSIVDCGIYTPKGYLDQMATRAYSS	1198
Db	971	CSLFCRQEVSPNCIDEPSRCYFHDGDGVCEEFEQKTSIKDCGYVTPQGFLDQMASNASVS	1030
Qy	1199	HEDKKCCPVSLVTGER-HSLICTSYHPDLPNHRPLTGWPCVASENETODDRSEQPEGSL	1257
Db	1031	QOD-QQCPGWVITIGQPAASQVCRTKVIDLSEGISQAHAWYPTCTISYPYSQ-----	1078

[illegible]

RESULT 9
US-10-295-027-663
/ Sequence 663, Application US/10295027
/ Publication No. US20030232350A1
/ GENERAL INFORMATION:
/ APPLICANT: Afar, Daniel
/ APPLICANT: Aziz, Natasha
/ APPLICANT: Ginsberg, Wendy M.
/ APPLICANT: Gish, Kurt C.
/ APPLICANT: Glyme, Richard
/ APPLICANT: Hevezl, Peter A.
/ APPLICANT: Mack, David H.
/ APPLICANT: Murray, Richard
/ APPLICANT: Watson, Susan R.
/ APPLICANT: Eos Biotechnology, Inc.
/ TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
/ FILE REFERENCE: 018501-012500US
/ CURRENT APPLICATION NUMBER: US/10/295,027
/ CURRENT FILING DATE: 2002-11-13
/ PRIOR APPLICATION NUMBER: US 09/663,733
/ PRIOR FILING DATE: 2000-09-15
/ PRIOR APPLICATION NUMBER: US 60/350,666
/ PRIOR FILING DATE: 2001-11-13
/ PRIOR APPLICATION NUMBER: US 60/335,394
/ PRIOR FILING DATE: 2001-11-15
/ PRIOR APPLICATION NUMBER: US 60/332,464
/ PRIOR FILING DATE: 2001-11-21
/ PRIOR APPLICATION NUMBER: US 60/334,393
/ PRIOR FILING DATE: 2001-11-29
/ PRIOR APPLICATION NUMBER: US 60/340,376


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; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 663
; LENGTH: 1627
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-295-027-663

Query Match      39.7%; Score 3916.5; DB 15; Length 1627;
Best Local Similarity 45.8%; Pred. No. 1.3e-289;
Matches 718; Conservative 296; Mismatches 499; Indels 53; Gaps 25;

QY      249 REAETFNSQVLP--ILYFSGRRL-LRPVLAIRPREAFTVEAWKREGGQNNPAIT 305
      80 REARGATEEPPSPSRALYFSRGEOQLRVLRADL--ELPRDAFTLQVWLRABEGQSPAVI 137
QY      306 AGVFDCNCSHTVSDKGMALGIRSGDKGRDARFFSLCTDRVKKATILISHRYQPGTWT 365
      138 TGLYDKCSYISRDGRWVGVIHTISDQDNKDRYFSLKTRARQVTTNAHRSYLPQWV 197
QY      366 HVAATYDGRHMLVYDGTQVASSLDQSGPLNSPFMACSRLLGGDSSEGHYFRGHLGT 425
      198 YLAATYDQGMKLYVNGAQVATSQOVGGIFSPLTQCKVLMGG--SALNHNRYGYIEH 255
QY      426 LVFWSTALPQSHQOHSSQHSSEBEATDLVLTASFEPVNTWVPFRDEKYPRLV--LQG 483
      256 FSLMKVARTQREILSDMETHGAHTALPQLLQENWDNVKHAMSPMKDSSPKVEFSNAHG 315
QY      484 FEPEPELSPLOPPLCGQTVCDNVELISQYNGWPLRGEKVIRYQVNICDDEGLNPISV 543
      316 FLID---TSLRPPLCGQTLCDNTEVIASVQDLSFRQPKVVRVNVLYEDDHKNPTVT 371
QY      544 EEOIRLOHEALNEAFSRYNISWQLSVHQVNSTLRHRVVLVNCESPKIGNDHCDPECEHP 603
      372 REQVDFQHQLAFAFKQYNISWBLDYLEVSNSSLRRLLILANCDISKIDENCDPECNHT 431
QY      604 LTGYDGDGR-LQGRCYSWNRDGLCHVECNMNLNDFDDGCCDPQVADVRKTCFDPDSP 662
      432 LTGHDGDCRHLRHPAFVKQKHNGVCDMDCYERFNFDGGECCDPEITNVTQTCTFDPDSP 491
QY      663 KRAYMSVKELKALQJNSTHFLNIFYASSVREDLGAATWPMWPKDAVTHLGGIVLSPAY 722
      492 HRAYLDVNLKMLKLKLDGSTHLNIFFAKSSBEELAGVATWPMWKEALMHLGGIVLNSFY 551
QY      723 GMPGHTDTMHEVGHVGLYHVFKGVSERESGNDPCKETVPSMETGDLCADTAPTPKSEL 782
      552 GMPGHTHTMHEIGHSLGLYHVFRISEIQSCSDPCMETEPEFETGDLCDNTNPAKHKXS 611
QY      783 CREPEPTSDTCGFTFRPGAFPTNYMSYTDNCTDNFTPNQVARMHCYLDLVYQQWTESRK 842
      612 CGDPGPGNDTCGFHSFNTPYNNFMYSADDDCTDSFTPNQVARMHCYLDLVYQGWQPSRK 671
QY      843 PTPIPRPWVIGQTNKSLTIHMLPISGVVYDRASGSLGACTEDGTFRQYVHTASSRV 902
      672 PAPVALAPQVLTGHTTDSVTLWFPPIIDGHFFERELGSACHLCLEGRLLVQYASNASSPMP 731
QY      903 CDSGTYWTPPEAVGPPVDVQPCFSPSLQAMSPBEVHLYHMMTVPCP--TEGCSLELLFQHPV 961
      732 CSPSGHWSPREAEGHPDVEQPCSSVRIWSPNSAVNPHTPVPACPREQGCYLELEFLYPL 791
QY      962 QADTLTLWVT--SFFMESSQVLPDTEILLENKESVHLGPLDTFCDIPLTIKL-HVDGKVS 1018
      792 VPESLTIWTVFVSTDWSSGAVNDIKLAVSGKNISLGPQNVCDFVPLTIRLMDVGEAEVY 851
DB
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QY      1019 GVKVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVWTHSHRKFTD 1078
      852 GIQIYTLDEHLEIDAAMLTSTADTFLCQCKPLKYKVRDPLQMDVASIL-HLNRKFVD 910
QY      1079 VEVTPEGWQYQVLAABAGGELGEASPPLNHIGAPRYCGDGKVSERLGEBCDDGDLVSGDG 1138
      911 MDNLGSIYQYVWITISGTESESPBAVTYIHGRGYCGDGIQKQGEQCDDMNKINGDG 970
QY      1139 CSKVCLEBGFNCVGEPSLCYMEEGGICEPFRKTSIVDCGIYTPKGYLDQWATRAYSS 1198
      971 CSLFCRQEVSNCIDEPSRCYFHDGVCCEEFEQKTSIKDCGVYTPQGFLDQWASNASVS 1030
QY      1199 HEDKKKCPVSLVTGEP-HSLICTSYHBDLPNHRPLTGMFPCCVASENETQDDRSQPEGSL 1257
      1031 HQD-QQCPGWVIGQPAASQVCRKYIDLSEGISQHAMYPCTTISYPYSQ----- 1078
QY      1258 KKEDEVWLKVCFNRPGEARAFIFLTTDGLVPGEHQPTVTLVLTDVRSNHSIGTYGLS 1317
      1079 LAQTFWLRAYFSQPMVAAVIYHLVTDTGYGDQKQETISVQLDTRKDQSHDLGLHVL 1138
QY      1318 CQHNPLITNVTHQNVLFHHTTSVVLNFSRPVGISAVALRTSRIGLSAPNSCISEDEG 1377
      1139 CRNNPLITPVVHDLQSPFYHSQAVRVSFSSPLVAISGVALRSPNFPDPTVLTSSC-QRGET 1197
QY      1378 QNHQGSCTHRPCGKQDSCPSLLDHADVNCSTSI---GPGMKCAITQORGFAQASS 1433
      1198 YSPAQGSVCHFACEKTD-CPELAVENAS-LNCSSSDRYHG--AQCTVSCRTGYVLQIRR 1252
QY      1434 GQYIRPMQ--KEILLTSSGHWQDQVNSCLPVDGCVPPDPPLVNYANFSCSEGTKFLKRC 1491
      1253 DELIKSGTGPSVTVTCTEGKWNQYACEPVDCSI PDHQQVYAASFSCPEGTTFGSQCSF 1312
QY      1492 SCVPAKIQGLSPWLTCLLEDGLWSLPEVYCKLECDAPRIILNANLLPHCLQDNHVGTI 1551
      1313 QCRHPAQKGNNSLLTCMEDGLWSFPEALCELMCLAPRPVPNADLQJARCRENKHVGSF 1372
QY      1552 CKYECKPGYVVAESAEGKVRNKLKIQCLEGGIWEQSSCIPVVCBPPPVFEGMYECTNG 1611
      1373 CKYKCKPGYHVPGSSR-KSKKRAFTQCTQDGSWQEGACVPYTCDBRPKFKHGLYQCTNG 1431
QY      1612 FSLDSQCVLNC-----NQEREKPLICTKEGLWTQEFKLCENLQGECPRPPELSN-V 1665
      1432 FQPNSECRICKEDSDASQGLGSNVTHCRKQDGTWNGSFHVQEQMOGOC-SVPELNSNLKL 1490
QY      1666 KCEQGYIGAVCSPLCVIPPSDPVMLPENITADTLEHMMEPVYQSIYCTGRQWHPDPV 1725
      1491 QCPDGYAIGSECATSCLDHNSEIILPMNVTVRDI PHWLNPTREVRVYCTAGLKWYPHPA 1550
QY      1726 LVHCTGCEPFOADGWCDDTINNRAVCHYDGDCCSSTLSSKVIYPAADCDLD-ECTCRD 1784
      1551 LIHCVKGEPEFMGDNYCDAINNRAFCNYDGDCCSTJVTKTKVYFPWMSCDLQGDCACRD 1610
QY      1785 PKAEN 1790
      1611 PQAQEH 1616
DB
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RESULT 10
US-10-783-311-1
; Sequence 1, Application US/10783311
; Publication No. US20050009136A1
; GENERAL INFORMATION:
; APPLICANT: Nixon, Andrew
; APPLICANT: Hogan, Shannon
; TITLE OF INVENTION: PAP-A LIGANDS
; FILE REFERENCE: 10280-059001
; CURRENT APPLICATION NUMBER: US/10/783,311
; CURRENT FILING DATE: 2004-02-19
; PRIOR APPLICATION NUMBER: US 60/448,515
; PRIOR FILING DATE: 2003-02-19
; NUMBER OF SEQ ID NOS: 394
; SOFTWARE: FastSeq for Windows Version 4.0
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; SEQ ID NO 1
; LENGTH: 1627
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-783-311-1

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Query Match	39.7%	Score 3916.5;	DB 17;	Length 1627;
Best Local Similarity	45.8%	Pred. No. 1.3e-289;		
Matches 718;	Conservative 296;	Mismatches 499;	Indels 53;	Gaps 25;

Qy	249	REAETPNSQVGLP-ILYSGRRERL-LLRPEVLAEIPREAFTVEAWVKPEGGONNPAIT	305
Db	80	REARGATEEPSPPSRALYFSGRGEQLRVLRADL--ELPRDAFTLLQVWLRAGGQRRSPAVI	137
Qy	306	AGVFDCNHSHTVSDKGWALGIRSGKDKRDRARFFPSLCTDBVKKATILISHSRYPQGTWT	365
Db	138	TGLYDKCSYISRDRGWVNGIHTISDQDNKDPXYFFSLKTRDARQVTTINAHRSYLPQWV	197
Qy	366	HVAATYDGRHMALYVDGTQVASSLDQSGPLNSPFMASCRSLLIGDSSSEDGHYFRGHLGT	425
Db	198	YLAATYDQGFMKLYVNGAQVATSGEQVGGIFSPLTQCKKXVLMGG--SALNHNRYGRIEH	255
Qy	426	LVFWSTALPQSHFQHSQHSGBEATDVLVTASFEPVNTENVPRDEKYPRLV--LOG	483
Db	256	FSLWKVARTQREILSDMETHGAHTALPQLLQENMDNVKXAMSPMKDGSSPKVEFESNAHG	315
Qy	484	FEPEPEILSPQPPLCGQIVCDNVELISQYNGYWPRLRGEKYIRQVYVNICDDEGLNPYVS	543
Db	316	FLLD---TSLPEPLCGQILCDNTEVIASYNQLSSFRQPKVRYRVVNLVEDDHKNPIYVT	371
Qy	544	EEQIRLOHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCPEPSKIGNDHCDPECEHP	603
Db	372	REQVDFQHQLAEAFKQYNISWELDVLEVSNSSLRRLILANCDISKIGDENDCPECNHT	431
Qy	604	LTYDGDGDCR-LOGRCYSWNRDGLCHECNMNLNDFDGDCCDPQVADVARTKCFDPDSP	662
Db	432	LTHDGDGDCRHLRHPAFVKQKHNGVCDMDCNYERFNFDEGCCDPEITNVTQTCFDPDSP	491
Qy	663	KRAYMSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWMDKDAVTHLGGIVLSPAY	722
Db	492	HRAVLDVNELKNILKLDGSIHLNIFAKSSEBELAGVATWMDKEALMHLGGIVLNPSTFY	551
Qy	723	GMPGHTDTMIHEGVHVLGLYHVFKGVSERESCNDPCKEIVESMETGDLCADTAPTPKSEL	782
Db	552	GMPGHTHTMIHEIGHSLGLYHVFRISEIQSCSDPCMETEPPSFETGDLCDNTNPAKPKXS	611
Qy	783	CREPEPTSDTCGFTRPFGARFTNYMSYTDNCTDNFTPNQVARMHCYLDLVYQOWTESRK	842
Db	612	CGDPGPGNDTCGFHSFENTPEYNNFMSYADDDCTDSFTPNQVARMHCYLDLVYQOWPGRK	671
Qy	843	PTPIPIPMVIGQITNSLTIHMLPRISGVVYDRASGSLCGACTEDGTFRQYVHTASSRV	902
Db	672	PAPVALAPQVLGHTTDSYTLWEPFPIDGHFFERELGSACHLCLEGRILVQYASNASSPMP	731
Qy	903	CDSGXYTPBEAVGPRPDVQCEPSLQAWSPFVHLYHNMNTVPCP-TEGCSLELFGHPV	961
Db	732	CSPSGHWSPREAEGHPDVEQPCCKSSVRTWSPNSAVNPHYVPACPEPQGCYLELEFLYPL	791
Qy	962	QADTLTLWVT--SFFMESSQVLPDTEILLENKESVHLGPLDTFCDIPLTIKL-HVDBGYS	1018
Db	792	VPESLTIWTVFTVSTDMWSSGAVNDIKLAVSGKNISLGPQVNFCDVPLTIRLMDVGEEVY	851
Qy	1019	GKVYVTFDERIEIDAALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVVTTHSHRKFTD	1078
Db	852	GIQIYTLDEHLEIDAMMLTSTADTPLCLQCKPLKRYVARDPPLQMDVASIL-HLNKRKPYD	910
Qy	1079	VEVTPGQMYYQVLAEBAGSELGEASPPPLNHIGAPYCGDGKYSERLGECCDDGDLVSGDG	1138
Db	911	MDLNLGSVYQYWVITISGTESEBPSPAVTYIHGRGYCGDGIIOKDQGEQCDMDMNKINGDG	970
Qy	1139	CSKVCELEEGFNCVGEPSLCYMYEGDICEPFERKTSIVDCGIYTPKGYLDQWATRAYSS	1198
Db	971	CSLFCROEVSFNCIDEPSCRYPHDGDGVCEBEQKTSINDCGVYTPQGFLDQWASNASVS	1030

[illegible]

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RESULT 11
US-10-741-600-1406
; Sequence 1406, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1406
; LENGTH: 1627
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; TYPE: PRT
;
; ORGANISM: Homo sapiens
;
US-10-741-600-1406

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Query Match          39.7%; Score 3916.5; DB 17; Length 1627;
Best Local Similarity 45.8%; Pred. No. 1.3e-289;
Matches 718; Conservative 296; Mismatches 499; Indels 53; Gaps 25;

QY      249  REAETENSQVGLP--ILYPSGRRLR-LLRPEVLARIPREAFTVEAWYKPEGGNPAII 305
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      80  REARGATEPPSPSRALYSGRGEQLRLRADL--ELPRDAFTLQWVLRAGEGQSRSPAVI 137

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QY      249 REAETENSQVGLP--ILYFSGRRERL-LLRPEVLAEIPREAFTVEAMVKEGGQNNPAII 305
      |||      : ||||| | : || : : ||| : ||| : ||| : |||
Db      80 REARGATEEPSPSRALYFSGRGEQLRVLRADL--ELPRDAFTLQVWLRAEGGQRRSPAVI 137

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Qy	306	AGVFDNC	SHTVSDK	GWALGIR	SGDKD	KGRDAR	FFPSLCTD	RVKATIL	ISHSR	YQPGTW	365																																																
Db	138	TGLYDK	CSYIS	RDRGW	VGIHT	ISDQ	DNKDP	RYFFSL	KTD	BAROYTT	INAHRSYLPGOW	197																																															
Qy	366	HVAATY	DGRHMA	LYDGT	OYASS	LDOS	GPLNS	PFMAS	CRSL	LLGDS	SEDEGHYFR	GLGT	425																																														
Db	198	YLAATY	DGO	FMKLY	YNGA	OYAT	SGEO	VGIF	SP	LTQK	CKVLM	GG--SALNHN	RYG	255																																													
Qy	426	LVEW	STALP	OSHFO	SSOH	SGSE	EATD	VLTA	SE	FPVNT	WVFR	DEKYP	RLV--LOG	483																																													
Db	256	PSLW	KVARTO	REIL	SD	METH	GAHTAL	POLL	QEN	WDN	VKHAM	SPMKD	GSSPKVE	FSNAHG	315																																												
Qy	484	FEPE	PEIL	SPLO	P	PCG	ATV	CDN	VELIS	QYNG	WYPL	RE	GKVI	RYOVNI	CDDEGL	NP	IVS	543																																									
Db	316	FLLD---	TSLE	PPLCG	QTL	CDN	TE	VIAS	YNQL	SSFR	OP	KVAYR	RVVNL	YED	DHKN	PTVT	371																																										
Qy	544	EEQIR	LQHEAL	NEAF	SR	YNIS	WQLS	VHQN	STLR	HR	VVLV	NC	PE	SKIGN	DHCD	PECEHP	603																																										
Db	372	REQVD	FQHOLA	EAFKQ	YNIS	WELD	VLE	SNSS	LRRL	ILAN	CD	ISKIG	DEN	CD	PECNHT	431																																											
Qy	604	LTYD	GDCR--	LOG	RCYS	NMR	DGL	CH	VE	CNN	MLN	D	FD	GD	CCD	P	O	VAD	VRKTC	FPD	PS	662																																					
Db	432	LTGH	DGDC	RHLR	HPA	FV	AKOH	NGV	CD	MD	CNYER	FNF	D	GE	CCD	BEIT	NTV	QT	CF	PD	PS	491																																					
Qy	663	KRAY	SVKEL	KEAL	Q	LNST	HF	LN	IY	FASS	VRED	L	AG	AAT	PMD	KDA	VTH	L	G	I	V	L	S	PAY	722																																		
Db	492	HRA	YLD	VNEL	KNIL	K	LD	ST	HLN	I	PA	K	S	SEEL	AG	AT	PMD	KAL	MHL	G	I	V	L	N	PSFY	551																																	
Qy	723	GMPG	HTD	TM	HE	VGH	VL	GLY	H	FE	KV	SER	S	CND	P	C	K	E	T	V	S	M	E	T	G	DL	CAD	T	A	P	T	P	K	SEL	782																								
Db	552	GMPG	HT	TM	HE	I	G	HS	L	G	L	Y	H	F	R	G	I	S	E	I	Q	S	C	S	D	P	C	M	E	T	E	S	F	E	T	G	D	L	C	N	D	T	N	P	A	P	K	H	S	611									
Qy	783	CRE	PE	T	S	D	T	C	G	F	T	R	P	G	A	P	T	N	M	S	Y	T	D	N	C	T	D	N	F	T	P	N	O	V	A	R	M	H	C	Y	L	D	V	Y	Q	W	T	E	S	R	K	842							
Db	612	CGD	P	G	P	G	N	D	T	C	G	F	H	S	F	E	N	T	P	Y	N	N	F	M	S	Y	A	D	D	C	T	S	F	T	P	N	O	V	A	R	M	H	C	Y	L	D	V	Y	Q	W	P	S	R	K	671				
Qy	843	P	T	P	I	P	I	P	M	V	I	G	O	T	N	K	S	L	T	H	M	L	P	I	S	G	V	V	I	D	R	A	S	G	S	L	C	G	A	C	T	E	D	G	T	F	R	O	Y	V	H	T	A	S	S	R	V	902	
Db	672	P	A	P	A	L	A	P	O	V	L	G	H	T	T	D	S	V	T	L	E	W	F	P	I	D	G	H	F	F	E	R	L	G	S	A	C	H	L	C	I	E	G	R	I	L	V	O	Y	A	S	N	A	S	S	P	M	P	731
Qy	903	C	D	S	S	G	Y	T	P	E	E	A	V	G	P	P	D	V	D	O	C	E	P	S	L	O	A	M	S	P	E	V	H	L	Y	H	M	N	T	V	P	C	P	--TEG	C	S	L	E	L	L	F	O	H	P	V	961			
Db	732	C	S	P	S	G	H	M	S	P	R	E	A	G	H	P	D	V	E	O	C	K	S	S	V	R	T	S	P	N	S	A	V	N	P	H	T	V	P	A	C	P	E	O	G	C	Y	L	E	F	L	Y</							

Db	1198	YSPAQSCVHFACEKTD-CPELAVENAS-INCSSDRYHG--AQCTVSCRIGYUQIRR	1252
QY	1434	GQYIRPMQ--KEILLTSSGHWDQNSCLPYDCGVDPDSLWNYANFSCSEGTFLKRC	1491
Db	1253	DDELIKSQGTSPSVTVTCTEGKWKNOVACEPDCSIPDHQVYAASFSCPEGTFGSQCSF	1312
QY	1492	SCVPPAKLOGLSPWLTCLBDGLWSLPEVYCKLECDARPIILNANLLPHCLQDNHDVGTI	1551
Db	1313	QCRHPAQLKGNNSLLTCMEDGLMSFPEALCELMCLAPRPVPNADLOJARCRENHKVG	1372
QY	1552	CKYECKPGYVVAESAEGKVRNKLKIQCLEGGIWEQSSCIPVCEPPRPVFEGMYECTNG	1611
Db	1373	CKYCKCPGYHVPGBSSR-KSKRAFKYQCTQDGSWQEGACVPPVTCDDPPPKFHGLYCTNG	1431
QY	1612	FSLDSQCVLN-----NQEREKLPILCTKEGLWTQEFKLCENLOGECPRPPELSN-VEY	1665
Db	1432	FQFNSECRICKEDSDASQGLGSNVIHCRKDGTMNGSFHVCQEMQGC-SVPNELNSMLKL	1490
QY	1666	KCEQGYGIGAVCSPLCVIPRSPDVMLPENTADTLEHMMBPVKVQSVCTGRROWHDPV	1725
Db	1491	QCPDGYAIGSECATSCLDHNSESIILPNNVTVRDIPHWLNPTRVERVCTAGLKWYHPA	1550
QY	1726	LWHCIQSCEPQADGWCDTINNRAYCHYDGGCCSSTLSSKKVIPFAADCILD-BCTCRD	1784
Db	1551	LHICVKGCEPFMGDNVCDAINNRAFCNPDGDCCTSTVKTTKVTPFPMSCDLQGCACRD	1610
QY	1785	PKAEN 1790	
Db	1611	PQAQEH 1616	

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RESULT 12
US-10-991-321-32
; Sequence 32, Application US/10991321
; Publication No. US20050112675A1
; GENERAL INFORMATION:
; APPLICANT: Kochen, Jarema Peter
; APPLICANT: Rosinski, James Andrew
; TITLE OF INVENTION: Specific Markers for Metabolic Syndrome
; FILE REFERENCE: 21742 US1
; CURRENT APPLICATION NUMBER: US/10/991,321
; CURRENT FILING DATE: 2004-11-17
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32
;
; LENGTH: 1627
;
; TYPE: PRT
;
; ORGANISM: Homo sapiens
;
US-10-991-321-32

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Query Match	39.7%;	Score 3916.5;	DB 17;	Length 1627;
Best Local Similarity	45.8%;	Pred. No. 1.3e-289;		
Matches 718;	Conservative 296;	Mismatches 499;	Indels 53;	Gaps 25;

Qy	249	REAEFTFNSQVGLP--ILYFSGRRLR-LRBEVLAIEIPREAFTEAWWKPEGONPAII	305
		: : : : : : : :	
Db	80	REARGATEESPSPSRALYFSGRGEQLRVLRADL--ELPRDAFTLLQVWLRAGGQSPAVI	137
Qy	306	AGVFDCNSHTVSDKGWALGIRSGKDKGRDARFFSLCTDRVKKATILISHSRYPGTWT	365
		: : : : : : : : :	
Db	138	TGLYDKCSYISRDRGWVGIIHTISDQDNKDPRYFSLKTRARQVTTINAHRSYLPQWV	197
Qy	366	HVAATYDGRNALYVDGTQVASSLDQSGPLNSPFMA SCRSLLLGDSSEDDGHYFRHIGT	425
		: : : : : : : :	
Db	198	YLAATYDQGFMKLYVNGAQVATSGEQVGIFSPYTKCKVLMGG--SALNHNRYGYLEH	255
Qy	426	LVFWSTALPQSHFQHSQHSQHSGBEEATDLVLTA FEPVNTEWVPFRDEKYPRLV--LQG	483
		: : : : : : :	
Db	256	FSLWKVARIQREILSDMETHGAHTALPQLLQENWMDNVKHAWSPMKDSSPKVEFSNAHG	315
Qy	484	FEPEPEILSPLOPPLCGQTVCNDVELISQYNGYWPRLRGEKVIRYQVNNICDDEGLNPIVS	543
		: : : : : : : : :	


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Db 316 FLDD----TSLEPPLCGQTLCDNTEVIASYNQLSSFROPKVVRRVNVLYEDDHKNPTVT 371
Qy 544 EEOIRLOHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCESPSKIGNDHCDPECEHP 603
Db 372 REQVDFQHQLAEAFKQYNISWELDVLEVSNSSLRRLLILANCDISKIDENCDCPECNHT 431
Qy 604 LTGYDGDGCR-LQGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQVADVKTCTFDPDSP 662
Db 432 LTGHDGDCCHLRHPAFVKQHNVCMDMCNVERFNFDGGECCDPETVNTQTCTFDPDSP 491
Qy 663 KRAYMSVKEALQLNSTHPLNIFPASSVREDLAATWPMWDKAVTHLGGIVLSPAY 722
Db 492 HRAYLDVNEELKNILKLDGSTHLNIFFAKSEBELAGVATWPMWKEALMHLGGIVLNPSEFY 551
Qy 723 GMPGHTDMIHGVHVLGLYHFKGVSEBSCNDPCKETVPSMETGDLCADTAPTPKSEL 782
Db 552 GMPGHTHTMHEIGHSLGLYHVFGRISLQSCSDPCMETBPSFETGDLCDNTPAPKHS 611
Qy 783 CREPEPTDTCGFTREFPGAFPTNYSYTDNCTDNFTPNQVARMHCYLDVYQQWTESRK 842
Db 612 CGDPGPGNDTCGFHSFENTPYNNFMSYADDCDTSFTPNQVARMHCYLDLVYQGWQPSRK 671
Qy 843 PTPIRIPMWIGQTNKSLTIHMLPRISGVYDRASGSLCGACTEDGTFRQYVHTASSRV 902
Db 672 PAPVALAPQVLGHTTDSVTLEWFPPIIDGHFFERELGSACHLCLEGRIIVQYASNASSPMP 731
Qy 903 CDSGCVWTPBEAVGPDPVDQPCPSLQAWSPEVHLHYHMMTVPCP-TEGCSLELLFOHPV 961
Db 732 CSPSGHWSPREAEGHPDVEQPCSSVRTWSPNSAVNPHVTVPACREPOCYLELEFLYPL 791
Qy 962 QADTLTLWT--SFMESSQVLEFTEILLENKESVHLGRLDTFCDIPILIKL-HVDKVS 1018
Db 792 VPESLTIWTFVSTWDSSGAVNDIKLAVSGKNISLGPQNVFCDPVPLTIRLMDVGEVY 851
Qy 1019 GVKVYTFDERIEDAALLTSQPHSLPSCGCRPVRYQVLRDPPFASGLPVVTHSHRKFTD 1078
Db 852 GIQVTLDEHLEIDAAMLTSTADTPLCLOCKPLKYKVVDRPLOWDVASIL-HLNKRFVD 910
Qy 1079 VEVTGQWYQVYLAEBAGELGEASPRLNHIGAPYCGDGKVSERLGECCDDGLVSGDG 1138
Db 911 MDLNLGSVYQYVWITISGTESESPSPAVYIYHGRGYCGDGIIOKDQGEQCDDMNKINGDG 970
Qy 1139 CSKVCLEEGFNVCVGEPSLCYMYEGDGICEPPEKRTSIVDCGIYTPKGYLDQWATRAYSS 1198
Db 971 CSLFCRQEVSNFNCIDEPSRCYFHDGDVCEBEFQKTSIKDCGVYTPQGFLDQWASNASVS 1030
Qy 1199 HEDKKKCPVSLVTGER-HSLICTSYHPLBNHRPLTGMFPCVASENETQDDRSEQPEGSL 1257
Db 1031 HQD-QQCGPMWIIIGOPASOVCRKVIIDSEGISQHAWYRCTISYPSYQ----- 1078
Qy 1258 KKEDEVWLKVCFNRPGEARAFIFLTDTGLVPEGHQOPTVTLVYLDVRGSNHSLGTYGLS 1317
Db 1079 LAQTFWLRAYFSQPMVAAVIHLVTDGYGGDQKQETISVQLDTRKQSHDLGLHVLIS 1138
Qy 1318 COHNPLINVTHQNVLFHHTTSVLTNFSRPRVGISAVALRTSSRIGLSAPNSCISEDEG 1377
Db 1139 CRNNPLIIPVHDLISQPFYHSAVRVSSPLVAISGVALRSFDNFPVTLSSC-QRGFT 1197
Qy 1378 QNHQGSCTHRPCGKQDSCPSLLDHADVNTCSI---GPGLMKCAITCQGFALQASS 1433
Db 1198 YSPAEQSCVHFACEKTD-CPELAVENAS-LNCSSSDRYHG--AOCTVSCRTGYVLQIRR 1252
Qy 1434 GQYIRPMQ--KEILLTSSGHWQNVSCLPVDCGVPDPSLVNRYANFSCSEGTKFLKRCSI 1491
Db 1253 DDELIKSQTPSVTVTCTEGKWNQVACEPVDCSIPIDHQVYAASFCPEGTTFGSQCSF 1312
Qy 1492 SCVPPAKLOGLSPWLCTLEDGLWSLPEVYCKLECDAPRIILNANILLPHCLQDNHDVGTI 1551
Db 1313 QCRHPAQLRGNNSLLTCMEDGLWSFPRALCELMCLAPRPVPNADLQIARCRENHKVGVSF 1372
Qy 1552 CKYECKPQYVVAESAEGKVRNKLKIQCLEGGIWEQSCIPVVCBPPPVFEQMYECTNG 1611
Db 1373 CKYKCKPQYHVPSSSR-KSKGRAFKTOCTQDGSWQBGACVPVTCDBPPRPKPHGLYQCTNG 1431
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Qy 1612 FSLDSQCVLNC-----NOEREKPLICTKEGLWTQEPKLCENLQEGCPRPPSELNS-VEY 1665
Db 1432 FQFNSECRICEBDSASQGLGSNVHICRKDGTWNGSFHVQEMQGC-SVPELNSNLKL 1490
Qy 1666 KCEQGYGIGAVCSPLCVIPSPDPVMLPENITADTLEHMEPVKVQSIYCTGRROWHPDPV 1725
Db 1491 QCPDGYALGSECATSCLDHNSSEIILPMVTVTRDIPHMLNPTRVERVCTAGLKMYHPHA 1550
Qy 1726 LVHCIOGCEBPQADGWCDTINNRAVCHYDGDCCSSTLSSKKVIPPAADCDLD-ECTCRD 1784
Db 1551 LIHCVKGCEBPMGDNYCDAINNRAFQVYDGGDCCTSTVTKTKVTFPMSCDLLQGDACARD 1610
Qy 1785 PKAEN 1790
Db 1611 PQAQEH 1616

RESULT 13
US-10-887-229A-8
; Sequence 8, Application US/10887229A
; Publication No. US20050148509A1
; GENERAL INFORMATION:
; APPLICANT: DAKE, BRIAN
; APPLICANT: BOOTH, BARBARA
; APPLICANT: BOES, MARY
; APPLICANT: BAR, ROBERT S.
; TITLE OF INVENTION: BINDING PROTEINS AS CHEMOTHERAPY
; FILE REFERENCE: IOWA:049US
; CURRENT APPLICATION NUMBER: US/10/887, 229A
; PRIOR FILING DATE: 2004-07-08
; PRIOR APPLICATION NUMBER: 60/538, 000
; PRIOR FILING DATE: 2004-01-21
; PRIOR APPLICATION NUMBER: 60/485, 846
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 1627
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-887-229A-8

Query Match 39.7%; Score 3916.5; DB 18; Length 1627;
Best Local Similarity 45.8%; Pred. No. 1.3e-289;
Matches 718; Conservative 296; Mismatches 499; Indels 53; Gaps 25;

Qy 249 REAETFNQVGLP--ILYFSGRREKL-LLRPEVLAEIPREAFVTEAVVYKPEGQNNPAIT 305
Db 80 REARGATEPSPSPSRALYFSGRGEDQLRVLRADL--ELPRDAFTLOVWLRAEGQORSPAVI 137
Qy 306 AGVFNDNSHTVSDKGWALGIRSGKGRKRDARFPFSLCTDRVKATILISHSRYOPTWT 365
Db 138 TGLYDKCSYISRDRGWVVGIIHTISDQDKDPYFFSLKTRARQVTTINAHRSYLPQGW 197
Qy 366 HVAATYDGRHMLYVDGTQVASSLDQSGPLNSPFMASCRSLLGDSSEDEGHYFRGHLGT 425
Db 198 YLAATYDQGFMKLYVNGAQVATSGEQVGIFSPLTQCKVLMGG--SALNHNRYRGYIEH 255
Qy 426 LVFWSTALPQSHFQSSSQHSSGSEBEATDVLVTASFEPVNTIEWVPRDEKYPRLBV--LQG 483
Db 256 FSLWKVARTQREILSDMETHGAHTALPQLLLQENWMDNVKHAMSPMKDGSSPKVEFSNAHG 315
Qy 484 FEPEPILSPLOPPLCGQTVCDNVELISQYNGYWPLRGEKVIRYQVYNICDDEGLNPIS 543
Db 316 FLDD----TSLEPPLCGQTLCDNTEVIASYNQLSSFROPKVVRRVNVLYEDDHKNPTVT 371
Qy 544 EEOIRLOHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCESPSKIGNDHCDPECEHP 603
Db 372 REQVDFQHQLAEAFKQYNISWELDVLEVSNSSLRRLLILANCDISKIDENCDCPECNHT 431
Qy 604 LTGYDGDGCR-LQGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQVADVKTCTFDPDSP 662
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Db 432 LTGHDDGDCRHLRHPAFVKKQHNVCMDCNVERFNFDGGECCDPEITNTVQTCTCFDDSP 491
Qy 663 KRAYMSVKELKEALQLNSTHFLNIYFASSVREDLAGATWPMWDKDAVTHLGGIVLSPAY 722
Db 492 HRAYLDVNEELKNILKLDGSTHINIFFAKSSSEELAGVATWPMWKEALMHLGGIVLNPsfy 551
Qy 723 GMPGHTDTMIHEGVHVLGLYHVFKEGVSERESCNDPCKBTVPMSMETGDLCADTAPTPKSEL 782
Db 552 GMPGHTHTMIHEIGSLGLYHVFRISEIQS CSDPCMETEPSFETGDL CNDTNPA PKHKS 611
Qy 783 CREPEPTSDTCGTRFPGAFPTNMSYTDNCTDNFTPNQVARMHCYLDLVYQOWTESRK 842
Db 612 CGDPGPGNDTCGFHSFENTPYNMFMSYADDDCTDSFTPNQVARMHCYLDLVYQGWQPSRK 671
Qy 843 PTPITPPIPMVIGOTNKS LTIHMLPPISGVYVDRASGSLCGACTEBGTFRQYVHTASSRRV 902
Db 672 PAPVALAPOVLGHTTDSVTLEWFPPIIDGHPFERELGSACHLCLEGRIIVQYASNASSPMP 731
Qy 903 CDSGQYWPBEAVGPPDVDDQPCESPLOQANSPEVHL YHMMNTVPCP-TEGCSLELLFOHPV 961
Db 732 CSPSGHWSPREABGHPDVEOPCKSSVRTWSPNSAVNPHTPVPACPEPQCYLELEFLYPL 791
Qy 962 QADTLTLWYT--SFEWESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKL-HVDKVS 1018
Db 792 VPESLTIWTFVSTWDSSGAVNDIKLAVSGKNISLGPQNVFCDVPLTIRLMDVGEEVY 851
Qy 1019 GVKVYTFDERIEIDALLTSQPHSPLCSGGRPVRYQVLRDPPFASGLPVVTHSHRKFTD 1078
Db 852 GIQIYTLDEHLEIDAAMLTSTADTPLCLQCKPLKVVDRDPLQMDVASIL-HLNRKFVD 910
Qy 1079 VEVTPEGMYQOVLABAGGELGEASPLNHIHGAPYCGDGKVSERLGECCDDGLVSGDG 1138
Db 911 MDLNLGSVYQYWVITISGTESESESPAVYIYHGRGYCGDGI IQKDGEHCDDMNKINGDG 970
Qy 1139 CSKVCLEBEGNVCVEPSLCYMEGDGICEPFEKTSIVDCGIYTPKGYLDQWATRAYSS 1198
Db 971 CSLFCRQEVSFNCIDEPsrcYFHDGDGVCBEFEQKTSIKDCGVYTPQGFLDQWASNASVS 1030
Qy 1199 HEDKKKCPVSLVTGER-HSLICTSYHPDLNHRPLTGMFPCVASENETODDRSEQPEGSL 1257
Db 1031 HQD-QQCPGWIIGQPAASQVCRKTVIDISEGISQHWYPCITISYPYSQ----- 1078
Qy 1258 KKEDEVWLKVCFNRPGEARAFIFLTITDGLVGEHQOQPTVTLYLTDVRSNHS LGTYGLS 1317
Db 1079 LAQTFWLRAYFSQPMVAAAVIHLVTDGYGGDQKQETISVQLDPTKQSHDLGLHVLs 1138
Qy 1318 CQHNPLIINVTHQNVLFHHTTSVLLNFSSPRVGISAVALRTSSRIGLSAPSNCSBDEG 1377
Db 1139 CRNNPLIIPVVDLSQPFYHSQAVRVSFSSPLVAISGVALRSFDNFDPVTLSSC-QRGET 1197
Qy 1378 QNHQGSCTIRPCQKQDSCPSLLDHDADVNCISI---GPGLMKCAITCQGFALQASS 1433
Db 1198 YSPAEQSCTHFACEKTD-CPELAVENAS-LNCSSSDRYHG--AQCTVSCRtGYVLQIRR 1252
Qy 1434 GQYIRPMQ--KEILLTSSGHWMDQVNSCLPYDCGVDPDPSLVNRYANBSGSEGTKFLKRC SI 1491
Db 1253 DDELIKSQTGPSVTVTCTEGKMNKQVACEPVDCSI PDHQVYAASFSCPEGTTFGSQCSF 1312
Qy 1492 SCVPPAKLQGISFWLTCTLEDGLWSLPEVYCKLECDAPRIILNANLLBPHCLQDNHDVGTI 1551
Db 1313 QCRHPAQLKNNNSLLTCMEDGLWSFPEALCELMCLAPRPVPENADLQTPARCENKHKVGsf 1372
Qy 1552 CKYECKPGYVVAESAEGKVRNKLKIQCLEBGIWEQSCIPVVCERPVPVFEGMYECTNG 1611
Db 1373 CKYKCKPGYHVPSSSR-KSKKRAFKTQCTQDGSWQBGACVPVTCDPREP KFHL YQCTNG 1431
Qy 1612 FSLDSQCVLNC-----NQREKLPI LTCESLWTQEFKLCENTLQEGCEPPPPSELNS-Vey 1665
Db 1432 FQFNSECRICKEDSDASQGLGSNVIHCRKDGtWNGSFHVCQEMQGC-SVPNELNSNLKL 1490
Qy 1666 KCEQGYGIGAVCSPLCVIPSPDVMLPENITADTLEHWMPEVKVQSIYCTGRRQWHPDV 1725
Db 1491 QCPDGYAIGSECATSCLDHNSESIILPMNVTVRDI PHMLNPTRVERVYVCTAGLKMYPHPA 1550

Qy 1726 LVHICQSCPEQADGWCDTINNRAYCHYDGDCCSSTLSKRYIPFAADCOLD-ECTCRD 1784
Db 1551 LIHCYKCEPFMGNDYCDAINNRAFCNYYDGDCCCTSTVKTKKVTPEFMSCDLQGDCA CRD 1610
Qy 1785 PKAEN 1790
Db 1611 PQAQEH 1616
RESULT 14
US-10-783-311-2
; Sequence 2, Application US/10783311
; Publication No. US2005009136A1
; GENERAL INFORMATION:
; APPLICANT: Nixon, Andrew
; APPLICANT: Hogan, Shannon
; TITLE OF INVENTION: PAP-A LIGANDS
; FILE REFERENCE: 10280-059001
; CURRENT APPLICATION NUMBER: US/10/783,311
; PRIOR FILING DATE: 2004-02-19
; PRIOR APPLICATION NUMBER: US 60/448,515
; NUMBER OF SEQ ID NOS: 394
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1547
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-783-311-2
Query Match 39.7%; Score 3914.5; DB 17; Length 1547;
Best Local Similarity 46.1%; Pred. No. 1.7e-289;
Matches 714; Conservative 295; Mismatches 490; Indels 51; Gaps 24;
Qy 263 LYFSGRERRL-LLRPEVLAIEIPREAFVTEAWVKPEGQONPAIAGVFNDCSHTVSDKGW 321
Db 16 LYFSGRGQLRVLRADL-ELPRDAFTLQVWLRABGGQRSFAVITGLYDKCSYISRD RGW 73
Qy 322 ALGIRSGDKGRDARFFFSLTCPDRVKKATILISHSRYPGTWTHVAATYDGRHMA LYVD 381
Db 74 VVGIIHTISDQNDKDPRIYFFSLKTRBARQVTTINAHRSYLPQGWYLAATYDGFMKLYVN 133
Qy 382 GTQVASSLDQSGPLNSPFMASCRSLLGDDSSBDGHYFRGHLGTLVFWSTALPQSHFQHS 441
Db 134 GAQVATSGEQVGIGIFSPLTQCKKYLMLGG--SALNHNRYGIEHFSLMKVARTQREILSD 191
Qy 442 SQHSSGEEBATDVLVTASFEPVNTVEWVPRDEKYPRLEV--LOGFEPEPEILSPLOPPLC 499
Db 192 METHGAHTALPQLLLQENWMDNVKHAWSPMKDSSPKVEFSNAGFFLLD---TSLERPPLC 247
Qy 500 GQTVCDNVELISQYNGWPLRGEKYIRYQVNICDEGELNPIYSEEQIRLOHEALNEAFS 559
Db 248 GQTLCDNTEVIASYNQLSSFRQPKYVRVYVNL YEDDHKNPTVTRREQVDFOHQLA EAFK 307
Qy 560 RYNISWQSVHQVHNSTLRHRVYLVNCEPSKIGNDHCDPECEHPLTGYDGD CR-LQGR C 618
Db 308 QYNISWELDVLEVSNSSLRRLILIANCDISKIGDENC DPECNHTLTGHDDGDCRHLRHPA 367
Qy 619 YSMNRDGLCHVECNMMLNFDDECCDPQVADV RKTCTFPDPSPKRAYMSVKELKEALQL 678
Db 368 FVKKQHNVCMDMCN YERFNFDGGECCDPEITNTVQTCTCFDPSBPHRAYLDVNEELKNILKL 427
Qy 679 NSTHFLNIYFASSVREDLAGATWPMWDKDAVTHLGGIVLSPAYYGMPGHTDTMIHEGVH 738
Db 428 DGSTHINIFPAKSSSEELAGVATWPMWKEALMHLGIGIVLNPsfYGMPGHTHTMIHEIGHS 487
Qy 739 IGLYHVFKVSERES CNDPCKETVPSMETGDL CADTAPTPKSEL CREPEPTSDTCGTRF 798
Db 488 IGLYHVFRISEIQS CSDPCMETEPSFETGDL CNDTNPA PKHKS CGDPGNDTCGFHSF 547
Qy 799 PGAPFTNMSYTDNCTDNFTPNQVARMHCYLDLVYQOWTESRKPTPIPIPMVIGQTNK 858
Db 1491 QCPDGYAIGSECATSCLDHNSESIILPMNVTVRDI PHMLNPTRVERVYVCTAGLKMYPHPA 1550

Db 548 FNTPNFMVSADDDCTDSFTPNQVARMHCYLDLVYQGMQPSRKPAPVALAPQVLGHTTD 607

Qy 859 SLTIHMLPISGVVYDRASGSLGACTEDGTERQYVHTASSRRVCDSSGYWTPBEAVGPP 918

Db 608 SVTLEWFPIDGHFFERELGSACHLCLEGRILVQYASNASSPMPSPSGHWSPREABGHP 667

Qy 919 DVDQPCPSLQAWSPEVHLVHMMNTVPCP-TEGCSLELLFQHPVQADTLTLMVT--SPFM 975

Db 668 DVEQPCSSVRTWSPNSAVNPHTVPACPEBQGCYLEFLYPLVPESLTIWTFVSTDW 727

Qy 976 ESSQVLPDTEILLENKESVHLGPLDTFCDIPLTIKL-HVDGKVSQVAVYTFDERIEIDAA 1034

Db 728 DSSGAVNDIKLAVSGKNISLGPQNVFCDVPLTIRLMDVGEEVYGIQIYTLDEHLEIDAA 787

Qy 1035 LITSQHPSLCSCGCRPVRYQVLRDPFASGLPVVVTSHRKFTDVEVTPGQMYQYQVLAE 1094

Db 788 MLTSTADTPLCLQCKPLKYKVVRDPLQMDVASIL-HLNRKFVMDMLNLSVYQYVITTI 846

Qy 1095 AGGELGEASPLNHIHGAPYCGDGKVSERLGEBCDDGDLVSGDSCSKVCELEEGFNCGE 1154

Db 847 SGTESESPRAVTYIHGRGYCGDGIQKDGEGCDDMNKINGDCSLFCRQEVSFNCIDE 906

Qy 1155 PSLCYMEGDCICEPFEKRTSIVDCGIYTPKGYLDQWATRAYSSHEBKCCPVSLVTGER 1214

Db 907 PSRCYFHDGDVCEEFEQKTSIKDCGVYTPQGFLDQWASNASVSHQD-QQCPGWVITIGP 965

Qy 1215 -HSLICTSYHBDLPNHRPLTGMFPCVASENETQDRSEQPEGLKKEDEVMWKVCENRPG 1273

Db 966 AASQVCRKTVIDLSEGISQHAMWPCITISYPYSQ-----LAQTFWLRAYFSQPM 1014

Qy 1274 EARAIFPLTDLGLVPEHQOPTVTLVYLTDRGNSHSLGTGYLSCQHNPLIINTVTHQNV 1333

Db 1015 VAAAVIVHLVTDGTYGQKQETISVQLDTRQSHDLGLHVLSCRNNPLIIPVHDLSSQ 1074

Qy 1334 LEHHTSVLNFSSPRVGISAVALTSSRIGLSAPNSCISEDEQNHQOSCIHRPCGKQ 1393

Db 1075 PFYHSAVAVSFSSPLVAISGVALRSPDNFDPVTLSSC-QRGETYSPAEQSCVHFACEXT 1133.

Qy 1394 DSCPSLLDHDVNVCTSI---GPGLMKCAITCQRGFALQASGQYTRPMQ--KEILLT 1447

Db 1134 D-CPELAVENAS-LNCSSSDRYHG--AQCTVSCRTGYVLQIRRDELIKSTQTPSVTVT 1188

Qy 1448 CSSGHWQNVSCLPVDCGVPDPSLVNYANBSCEGTFKLKRCISICVPAKLGSLPWL 1507

Db 1189 CTGKWNKQVACEPVDCSIPDHQVYAASFCPEGTTFGSQCSFQCRHBAQLKGNNSLLT 1248

Qy 1508 CLLEDGLWSLEPVYCKLECDAPRIILNANLLPHCLQDNHDVGTICKYECKPGYVAESA 1567

Db 1249 CMEDGLWSPFALCELMCLAPRPVPNADLTARCRENHKIVGSPCKYKCBGYHVPSSR 1308

Qy 1568 GKVRNKLKIQCLEGGIWEQSCIPVCEPRPVFEGBMYECTNGFSLSQCVLNC----- 1622

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Qy 1623 NQERREKLPICTKEGLWTOEFKLCENTLOGEPRPPSELNS-VEYKCEQYIGAVCSPLC 1681

Db 1368 SQGLGSNVIHCRKDGWTNGSFHVCQEMQGC-SVPNELNSNLKLCQCPGYAIGSECATSC 1426

Qy 1682 VIPPSDPVMLPENITADTLEHMMEPVKQSVCTGRQWHPDPLVHCTIOSCEPFQADGW 1741

Db 1427 LDHNSESIILPMNVTVRDIPLHMLNPTREVERVCTAGLKWYRHPALIHCVKGCPEFMGDN 1486

Qy 1742 CDTINNRAYCHYDGGDCSSSTLSSKKVIPFAADCDLD-ECTCRDPKAEEN 1790

Db 1487 CDAINNRAFCNYDGGDCCTSTVTKTKVTPEFMSCDLQGDCACRDPQAGEH 1536

; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH

; FILE REFERENCE: CL001499

; CURRENT APPLICATION NUMBER: US/10/741,600

; NUMBER OF SEQ ID NOS: 73997

; SOFTWARE: FastSeq for windows Version 4.0

; SEQ ID NO 1403

; LENGTH: 1420

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-741-600-1403

Query Match 36.5%; Score 3602; DB 17; Length 1420;

Best Local Similarity 45.9%; Pred. No. 1.2e-265;

Matches 659; Conservative 268; Mismatches 461; Indels 48; Gaps 22;

Qy 376 MALYVDGTQVASSLDQSGPLNSPFMASCSSLILGDSSEBGHYFRGHGLTVFWSTALPQ 435

Db 1 MKLYVNGAQVATSGEQVGGIFSPPLTQCKYVLMGG--SALNNHYRGYIEHPSLWKVARTQ 58

Qy 436 SHFQSSQHSQSGEEATDVLVTASFEPVNTWVPEFDEKYPRLV--LOGEPEPEILSP 493

Db 59 REILSDMETHGAHTALPQLLLQENWQNVKAWSPMKDGSSPKVEFSNAGFLD---TS 114

Qy 494 LQPLCGQTVCDNVELISQYNGWYPLRGEKYIRYQVNICDEGLNPIVSEQIRLQHEA 553

Db 115 LEPPLCGQTLCDNTEVIASYNQLSSFRQPRVYRYRVVNLVEDDHKNPTVYREQVDFQHHQ 174

Qy 554 LNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCERPSKIGNDHCDPECEHPLTGYDGDGR 613

Db 175 LAEAFKQYNISWELDLVLEVSNSSLRRLILANCDISKIGDENCDEPCNHTLTGHDDGDCR 234

Qy 614 -LQGRCYSWNRDGLCHVECNMMLNDFDGDCCDPQVADVRKTCFDPDSPKRAYMSVKEL 672

Db 235 HLRHPAFVKQHNQVCDMDCNTERFNFQDGBCCDPEITNTVQTCTFDPDSPRAYLVDVNEL 294

Qy 673 KEALQLNSTHFLNIYFASSVREDLAGAATWMDKDAVTHLGGIVLSPAYYGMGHTDTMI 732

Db 295 KNILKLDGSTHLNIFFAKSSSEELAGVATWMDKEALMLHGGIVLNPFGMIGHTHTMI 354

Qy 733 HEVGHVILGYHVEKGVSERESCNDPCKETVPSMETGDLCADTAPTPKSLCREPEPTSDT 792

Db 355 HEIGHSLGLYHVRGISEIQSCSDPCMETEBSFETGDLCDNTNPAKHKSCGDPGNGNDT 414

Qy 793 CGTRFPGAFPTNYMSYTDNCTDNFTPNQVARMHCYLDLVYQGMQPSRKPAPVALAPQV 852

Db 415 CGFHSFPNTPYNNFMVSADDDCTDSFTPNQVARMHCYLDLVYQGMQPSRKPAPVALAPQV 474

Qy 853 IGQTNKSLTIHMLPISGVVYDRASGSLGACTEDGTRQYVHTASSRRVCDSSGYWTP 912

Db 475 LGHTTDSVLTSEWFPPIIDGHFFERELGSACHLCLEGRILVQYASNASSPMPSPSGHWSPR 534

Qy 913 EAVGPRVDQCEPSLQAWSPEVHLVHMMNTVPCP-TEGCSLELLFQHPVQADTLTLMVT 971

Db 535 EABGHPDVEQPCSSVRTWSPNSAVNPHTVPACPEBQGCYLEFLYPLVPESLTIWVT 594

Qy 972 --SFMESSQVLPDTEILLENKESVHLGPLDTFCDIPLTIKL-HVDGKVSQVAVYTFDER 1028

Db 595 FVSTWDSSGAVNDIKLAVSGKNISLGPQNVFCDVPLTIRLMDVGEEVYGIQIYTLDEH 654

Qy 1029 IEIDALULTSQHPSLCSCGCRPVRYQVLRDPFASGLPVVVTSHRKFTDVEVTPGQMYQ 1088

Db 655 LEIDAAMLITADTPLCLQCKPLKYKVVRDPLQMDVASIL-HLNRKFVMDMLNLSVYQ 713

Qy 1089 YQVLAEGELGEASPLNHIHGAPYCGDGKVSERLGEBCDDGDLVSGDSCSKVCELEEG 1148

Db 714 YWVITISGTESESPRAVTYIHGSGYCGDGIQKDGEGCDDMNKINGDCSLFCRQEV 773

Qy 1149 FNCVGEPSLCYMEGDCICEPFEKRTSIVDCGIYTPKGYLDQWATRAYSSHEBKCCPV 1208

Db 774 FNCIDEPSCYFHDGDVCEEFEQKTSIKDCGVYTPQGFLDQWASNASVSHQD-QQCPGW 832

RESULT 15

US-10-741-600-1403

; Sequence 1403, Application US/10741600

; Publication No. US20050026169A1

; GENERAL INFORMATION:

; APPLICANT: CARGILL, Michele et al.

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OM protein - protein search, using sw model

Run on: August 25, 2005, 22:17:11 ; Search time 26.5172 Seconds
(without alignment)
4385.960 Million cell updates/sec

Title: US-09-983-025B-2_COPY_234_1791
Perfect score: 8612
Sequence: 1 SPPEESNONGEGSYREAF.....AADCDLDECTCRDPKAEHQ 1558

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	8592	99.8	1791	4	US-09-827-998-3 Sequence 3, Appli
2	8263	95.9	1770	4	US-09-827-998-10 Sequence 10, Appl
3	6126	71.1	1385	4	US-09-827-998-16 Sequence 16, Appl
4	1709	19.8	717	4	US-09-949-016-9436 Sequence 9436, Ap
5	336.5	3.9	3594	4	US-09-911-842A-4 Sequence 4, Appli
6	330.5	3.8	3571	4	US-09-911-842A-2 Sequence 2, Appli
7	287.5	3.3	1847	6	5256642-10 Patent No. 5256642
8	287.5	3.3	1847	6	5472939-10 Patent No. 5472939
9	287.5	3.3	1847	6	5256642-10 Patent No. 5472939
10	287.5	3.3	1847	6	5472939-10 Patent No. 5472939
11	287.5	3.3	2039	6	5256642-2 Patent No. 5256642
12	287.5	3.3	2039	6	5472939-2 Patent No. 5472939
13	287.5	3.3	2039	6	5256642-2 Patent No. 5256642
14	287.5	3.3	2039	6	5472939-2 Patent No. 5472939
15	287	3.3	1947	4	US-09-612-314A-52 Sequence 52, Appl
16	284	3.3	2489	4	US-09-911-842A-5 Sequence 5, Appli
17	283	3.3	1466	6	5256642-6 Patent No. 5256642
18	283	3.3	1466	6	5472939-6 Patent No. 5472939
19	283	3.3	1466	6	5256642-6 Patent No. 5256642
20	283	3.3	1466	6	5472939-6 Patent No. 5472939
21	283	3.3	1537	6	5256642-5 Patent No. 5256642
22	283	3.3	1537	6	5472939-5 Patent No. 5472939
23	283	3.3	1537	6	5256642-5 Patent No. 5256642
24	283	3.3	1537	6	5472939-5 Patent No. 5472939
25	253.5	2.9	849	4	US-09-949-016-10271 Sequence 10271, A
26	249	2.9	830	1	US-08-110-158-4 Sequence 4, Appli
27	249	2.9	1033	4	US-09-834-309-1 Sequence 1, Appli

28	243.5	2.8	830	5	PCT-US91-05059-2	Sequence 2, Appli
29	236	2.7	577	2	US-08-435-149-3	Sequence 3, Appli
30	236	2.7	611	3	US-09-475-460A-32	Sequence 32, Appl
31	236	2.7	611	4	US-09-748-061A-32	Sequence 32, Appl
32	235.5	2.7	574	6	5378464-3	Patent No. 5378464
33	235.5	2.7	574	6	5378464-3	Patent No. 5378464
34	235	2.7	830	6	5378464-2	Patent No. 5378464
35	235	2.7	830	6	5378464-2	Patent No. 5378464
36	230.5	2.7	610	1	US-08-365-470-3	Sequence 3, Appli
37	230.5	2.7	610	3	US-09-209-668-19	Sequence 19, Appl
38	230.5	2.7	610	3	US-09-009-490A-89	Sequence 89, Appl
39	230.5	2.7	610	4	US-09-949-016-5942	Sequence 5942, Ap
40	230.5	2.7	610	6	5217870-2	Patent No. 5217870
41	230.5	2.7	610	6	5217870-2	Patent No. 5217870
42	230.5	2.7	647	4	US-09-949-016-10272	Sequence 10272, A
43	225	2.6	1394	4	US-09-949-016-5971	Sequence 5971, Ap
44	225	2.6	1394	6	5177197-30	Patent No. 5177197
45	225	2.6	1394	6	5177197-30	Patent No. 5177197

ALIGNMENTS

RESULT 1									
US-09-827-998-3									
; Sequence 3, Application US/09827998									
; Patent No. 6656700									
; GENERAL INFORMATION:									
; APPLICANT: Gu, Yizhong									
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E									
; FILE REFERENCE: MDNORF-8									
; CURRENT APPLICATION NUMBER: US/09/827, 998									
; PRIOR FILING DATE: 2001-04-06									
; PRIOR APPLICATION NUMBER: US 60/207, 456									
; PRIOR FILING DATE: 2000-05-26									
; PRIOR APPLICATION NUMBER: US 60/236, 359									
; PRIOR FILING DATE: 2000-09-27									
; NUMBER OF SEQ ID NOS: 1881									
; SOFTWARE: Aeomica Sequence Listing Engine									
; Patent No. 6656700									
; SEQ ID NO 3									
; LENGTH: 1791									
; TYPE: PRT									
; ORGANISM: Homo sapiens									
US-09-827-998-3									
Query Match									
Best Local Similarity 99.8%; Score 8592; DB 4; Length 1791;									
Matches 1555; Conservative 1; Mismatches 2; Indels 0; Gaps 0;									
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DB	294	KPEGQNNPAIIAGV	FDNCSHTVSDKGWALGIRSGKDKGRDARFFSL	CTDRVKATIL	353				
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DB	354	ISHSRYPGTWTHVA	ATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMA	SCRSLGDDSS	413				
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DB	414	EDGHYFRGHGTLV	FWSTALPQSHFQHSQHSSEEBEATDVLTA	SFEPVNTWVPFRDE	473				
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Db 534 DDEGLNPVISEEQIRLOHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCEPSKIGN 593
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Db 594 DHCDPECEHPLTGYDGDCLRLQGRCSYWNRRDGLCHVECNMNLNDFDDGDCDPQVADVR 653
Qy 421 KTCFDPDSPKRAYMSVKELKEALQLNSTHFLNTYFASSVREDLAGAATWPMWDXAVTHLG 480
Db 654 KTCFDPDSPKRAYMSVKELKEALQLNSTHFLNTYFASSVREDLAGAATWPMWDXAVTHLG 713
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Qy 541 TAPTPKSELCREPEPTSDTCGFTRPGAPFTNYSYTDNCTDNFTPNQYARMHCYLDLV 600
Db 774 TAPTPKSELCREPEPTSDTCGFTRPGAPFTNYSYTDNCTDNFTPNQYARMHCYLDLV 833
Qy 601 YQQWTESRKPTPIPPMWIGQTNKSLTIHMLPISGVVYDRASGLCGACTEDGTFRQY 660
Db 834 YQQWTESRKPTPIPPMWIGQTNKSLTIHMLPISGVVYDRASGLCGACTEDGTFRQY 893
Qy 661 VHTASSRRVCDSSGYWTPEEAVGPPDVDQPCBPSLQAWSPEVHLYHMMNTVPCPTGCSL 720
Db 894 VHTASSRRVCDSSGYWTPEEAVGPPDVDQPCBPSLQAWSPEVHLYHMMNTVPCPTGCSL 953
Qy 721 ELLFOHPVQADTLTLMVTSFFEMESSQVLFDTELLLENKESVHLGPLDTFCDIPLTIKLV 780
Db 954 ELLFOHPVQADTLTLMVTSFFEMESSQVLFDTELLLENKESVHLGPLDTFCDIPLTIKLV 1013
Qy 781 DGKVSQVAVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPRASGLPVVTHSH 840
Db 1014 DGKVSQVAVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPRASGLPVVTHSH 1073
Qy 841 RKFTDVEVTPGQMYQVYLAELAGELGEASPPNLHIGAPYCGDGKVSERLGEEDDGD 900
Db 1074 RKFTDVEVTPGQMYQVYLAELAGELGEASPPNLHIGAPYCGDGKVSERLGEEDDGD 1133
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Db 1134 VSGDGSKVCELEBEGFNCVGEPSLCYMEGDGICEPERKTSIVDCGIYTPKGYLDQWAT 1193
Qy 961 RAYSSHEDKKCPVSLVTGEPHSLICTSYHPDLBNHRPLTGMFPCVASENETODDRSEOP 1020
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Db 1494 VPPAKLQGLSPWLTCLEDEGLMSLPEVYCKLECDAPRIILANLILPHCLQDNHDVGTICK 1553
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Db 1554 YECKPGYYVAESABGKVRNKLKIQCLEGGIWEQSSCIPVCEPPPPVFEEMYEECTNGFS 1613
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Db 1734 EPPQANGCDDTINNRAYCHYDGGCCSSSTLSSKKVIPFAADCDLDECTCRDPKAEENQ 1791

RESULT 2
US-09-827-998-10
; Sequence 10, Application US/09827998
; Patent No. 6656700
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: MDMORE-8
; CURRENT APPLICATION NUMBER: US/09/827, 998
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/207, 456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236, 359
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6656700
; SEQ ID NO 10
; LENGTH: 1770
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-827-998-10

Query Match 95.9%; Score 8263; DB 4; Length 1770;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy 241 KYPRLEVLQGEPEPEILSPQRPPLCGQTVCDNVELISQYNGYWPRLGKVIROYVNIC 300
Db 474 KYPRLEVLQGEPEPEILSPQRPPLCGQTVCDNVELISQYNGYWPRLGKVIROYVNIC 533
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Qy 361 DHCDPECEHPLTGYDGDCLRLQGRCSYWNRRDGLCHVECNMNLNDFDDGDCDPQVADVR 420
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Qy 481 GIVLSPAYYGMPGHTDTMIHEVGHVGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD 540
Db 714 GIVLSPAYYGMPGHTDTMIHEVGHVGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD 773

QY 541 TAPTPKSELCREPEPTSDTCGFTRFPGAPFTNYMSYTDNCTDNFTPNQVARMHCYLDLV 600
DB 774 TAPTPKSELCREPEPTSDTCGFTRFPGAPFTNYMSYTDNCTDNFTPNQVARMHCYLDLV 833
QY 601 YQOWTESRKPTPIPIPPMVIGQTNKSLTIHMLPPIISGVVYDRASGSLCGACTEDGTFRQY 660
DB 834 YQOWTESRKPTPIPIPPMVIGQTNKSLTIHMLPPIISGVVYDRASGSLCGACTEDGTFRQY 893
QY 661 VHTASSRRVCDSSGYWTPBEAVGPPDVDPCEBPSLQAMSPVHLVHNMNTVPCPTGCSL 720
DB 894 VHTASSRRVCDSSGYWTPBEAVGPPDVDPCEBPSLQAMSPVHLVHNMNTVPCPTGCSL 953
QY 721 ELLFQHPVQADTLTLWVTSFFMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKLHV 780
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DB 1194 RAYSSHEDKKCPVSLVTGEPHSLICTSYHDDLPHNRPLTGMFPCVASENETQDDRSEOP 1253
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DB 1254 EGSLLKEDVWLKVCFNRPGEARAFILITDGLVGEHQOPTVTLVLTDRGSNHSLSGT 1313
QY 1081 YGLSCQHNPLIINVTHQNVLFHHTTSVLFNFSSPRVGISAVALRTSRIGLSAPSNCSIS 1140
DB 1314 YGLSCQHNPLIINVTHQNVLFHHTTSVLFNFSSPRVGISAVALRTSRIGLSAPSNCSIS 1373
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DB 1374 EDEGQNHQGSCTHRPCGKQDSCPSLLBDHADVNTCSIGPLMKCAITCQRGFALQASS 1433
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DB 1494 VPPAKLQGLSPWLTCLEDGLMSLPVVCCKEBCDAPRIILNANLLPHCLQDNHDVGTICK 1553
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DB 1554 YECKPGYVVAESAEGKVRNKLKIQCLEGGIWEQSCIPVVCERPFPVFEQMYECTNGFS 1613
QY 1381 LDSQCVLNCQNEREKLPIILCTKEGLWTOEFKLCENLQGECPRPSPSELNSVEYKCEQYGI 1440
DB 1614 LDSQCVLNCQNEREKLPIILCTKEGLWTOEFKLCENLQGECPRPSPSELNSVEYKCEQYGI 1673
QY 1441 GAVCSPLCVTPSPDPVMLPENITADTLEHMMEPVKVQSIIVCTGRQWHPDPVLVHCIOQC 1500
DB 1674 GAVCSPLCVTPSPDPVMLPENITADTLEHMMEPVKVQSIIVCTGRQWHPDPVLVHCIOQC 1733
QY 1501 E 1501
DB 1734 E 1734

RESULT 3
US-09-827-998-16
; Sequence 16, Application US/09827998

; Patent No. 6656700
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: MDHMOF-8
; CURRENT APPLICATION NUMBER: US/09/827, 998
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6656700
; SEQ ID NO 16
; LENGTH: 1385
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-827-998-16

Query Match 71.1%; Score 6126; DB 4; Length 1385;
Best Local Similarity 73.6%; Pred. No. 0;
Matches 1147; Conservative 0; Mismatches 5; Indels 406; Gaps 1;

QY 1 SPPEESNONGEGSYREAETFNSQVGLPILYFSGRERLLRPEVLAIEIPREAFTVEAWV 60
DB 234 SPPEESNONGEGSYREAETFNSQVGLPILYFSGRERLLRPEVLAIEIPREAFTVEAWV 293
QY 61 KPEGQNNPAIIAGVFNDCSHTVSDKWAIGIRSGKDKGRDARFFFSLCTDRVKATIL 120
DB 294 KPEGQNNPAIIA----- 306
QY 121 ISHSRYQGTWTHVAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMA SCRSLLGGSS 180
DB 307 ----- 306
QY 181 EDGHYFRHLGTLVFWSTALPQSHFQSSQSSGEEATDLVLTASFPVNTWVPRDE 240
DB 307 ----- 306
QY 241 KYPRLEVQFEPEPEILSPLOPLCGQTVCDNVELISQYNGVPLRGEKVI RYQVNNIC 300
DB 307 ----- 306
QY 301 DDEGLNPIVSEQIRLOHEALNEAFSRYNISWQLSVHQVNSTLBHRVVLVNCEPSKIGN 360
DB 307 ----- 306
QY 361 DHCDPECHPLTYDGGDCRLQRCYSWNRKRGDLCHVECNMNLNDFDDGCCDPQAVDR 420
DB 307 ----- 306
QY 421 KTCFPDPSPKRAYMSVKELKEALQNSTHFLNIYFASSVREDLAGAATWPKDAVTHLG 480
DB 307 -----G 307
QY 481 GIVLSPAYYGMGHTDTMIHEVGHVGLYHVFKGVSERESCNBPCKETVPSMETGDLCAD 540
DB 308 GIVLSPAYYGMGHTDTMIHEVGHVGLYHVFKGVSERESCNBPCKETVPSMETGDLCAD 367
QY 541 TAPTPKSELCREPEPTSDTCGFTRFPGAPFTNYMSYTDNCTDNFTPNQVARMHCYLDLV 600
DB 368 TAPTPKSELCREPEPTSDTCGFTRFPGAPFTNYMSYTDNCTDNFTPNQVARMHCYLDLV 427
QY 601 YQOWTESRKPTPIPIPPMVIGQTNKSLTIHMLPPIISGVVYDRASGSLCGACTEDGTFRQY 660
DB 428 YQOWTESRKPTPIPIPPMVIGQTNKSLTIHMLPPIISGVVYDRASGSLCGACTEDGTFRQY 487
QY 661 VHTASSRRVCDSSGYWTPBEAVGPPDVDPCEBPSLQAMSPVHLVHNMNTVPCPTGCSL 720
DB 488 VHTASSRRVCDSSGYWTPBEAVGPPDVDPCEBPSLQAMSPVHLVHNMNTVPCPTGCSL 547

QY	721	ELLFQHPVQADTLTLMTSFFMSSQVLFDTTEILLNENKSVHLGPLDTPCDIPLTIKLV	780
Db	548	ELLFQHPVQADTLTLMTSFFMSSQVLFDTTEILLNENKSVHLGPLDTPCDIPLTIKLV	607
QY	781	DGKVSQVAVYTFEDERIEIDAALITSQPHSPLCSGCRPVRYQVLRDPFASGLPVVTHSH	840
Db	608	DGKVSQVAVYTFEDERIEIDAALITSQPHSPLCSGCRPVRYQVLRDPFASGLPVVTHSH	667
QY	841	RKFTDVEVTPGQMYQYQVLAEGGELGEASPLNTHIGA PYCGDGKVSERLGECDGDL	900
Db	668	RKFTDVEVTPGQMYQYQVLAEGGELGEASPLNTHIGA PYCGDGKVSERLGECDGDL	727
QY	901	VSGDGSKYCELEEGFNCVGBPSLCYMEGDGICEPERKTSIVDCGIYTPKGYLDQWAT	960
Db	728	VSGDGSKYCELEEGFNCVGBPSLCYMEGDGICEPERKTSIVDCGIYTPKGYLDQWAT	787
QY	961	RAYSSHEDKKKCPVSLVTGEPHSLICTSYHPDL PNHRPLTGMFP CVASENETQDDRSEOP	1020
Db	788	RAYSSHEDKKKCPVSLVTGEPHSLICTSYHPDL PNHRPLTGMFP CVASENETQDDRSEOP	847
QY	1021	EGSLKKEDVWLKVCFNRPGEARAIFILTTDGLVPGEHQOPTVTL YLTDVGRGNSHSLGT	1080
Db	848	EGSLKKEDVWLKVCFNRPGEARAIFILTTDGLVPGEHQOPTVTL YLTDVGRGNSHSLGT	907
QY	1081	YGLSCQHNPLIINVTHQNVLFPHHTTSVLLNFSSPRVGISAVALTSTSRIGLSAPNSCIS	1140
Db	908	YGLSCQHNPLIINVTHQNVLFPHHTTSVLLNFSSPRVGISAVALTSTSRIGLSAPNSCIS	967
QY	1141	EDEGQNHQSCSIHRPCGKQDCPSLLLDHADVNCSTIGPLMKCATTCORGFALQASS	1200
Db	968	EDEGQNHQSCSIHRPCGKQDCPSLLLDHADVNCSTIGPLMKCATTCORGFALQASS	1027
QY	1201	GQYIRPMQKEILLTSSSGHMDQNVSLPVDGVPDPBSLVNYANFSCSEGTFLKRCISIC	1260
Db	1028	GQYIRPMQKEILLTSSSGHMDQNVSLPVDGVPDPBSLVNYANFSCSEGTFLKRCISIC	1087
QY	1261	VPPAKLOGISPMWLTCLLEDGLMSLBEVYCKLECDAPPIILNANLLPHCLQDNHVDGTICK	1320
Db	1088	VPPAKLOGISPMWLTCLLEDGLMSLBEVYCKLECDAPPIILNANLLPHCLQDNHVDGTICK	1147
QY	1321	YECKPGYVAESAEGKVRNKLKIQCLEGGIWEQSCIPVCEPBPVFEFGMYECTNGFS	1380
Db	1148	YECKPGYVAESAEGKVRNKLKIQCLEGGIWEQSCIPVCEPBPVFEFGMYECTNGFS	1207
QY	1381	LDSQCVLNCQERREKLPICTKEGLMTQEFKLCENLOGECPPPPSELNSVEYKCEQGYGI	1440
Db	1208	LDSQCVLNCQERREKLPICTKEGLMTQEFKLCENLOGECPPPPSELNSVEYKCEQGYGI	1267
QY	1441	GAVCSPLCVIIPSPDPMLENTADTLEHMEPVKQSVICTGRRQWHPDVLVHCIOQC	1500
Db	1268	GAVCSPLCVIIPSPDPMLENTADTLEHMEPVKQSVICTGRRQWHPDVLVHCIOQC	1327
QY	1501	EPFOADGWCDDTINNRAYCHYDGDCCSSTLSSKKVIIPFAADCDLDECTCRDKPAENQ	1558
Db	1328	EPFOADGWCDDTINNRAYCHYDGDCCSSTLSSKKVIIPFAADCDLDECTCRDKPAENQ	1385
RESULT 4			
US-09-949-016-9436			
; Sequence 9436, Application US/09949016			
; Patent No. 6812339			
; GENERAL INFORMATION:			
; APPLICANT: VENTER, J. Craig et al.			
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED			
; FILE REFERENCE: CI001307			
; CURRENT APPLICATION NUMBER: US/09/949, 016			
; CURRENT FILING DATE: 2000-04-14			
; PRIOR APPLICATION NUMBER: 60/241,755			
; PRIOR FILING DATE: 2000-10-20			
; PRIOR APPLICATION NUMBER: 60/237,768			
; PRIOR FILING DATE: 2000-10-03			
; PRIOR APPLICATION NUMBER: 60/231,498			

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; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9436
; LENGTH: 717
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9436

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Query Match	19.8%;	Score 1709;	DB 4;	Length 717;
Best Local Similarity	43.0%;	Pred. No. 5.1e-140;		
Matches 310;	Conservative 140;	Mismatches 237;	Indels 34;	Gaps 14;

QY	851	GOMYOYOVLAEAGGELGEASPLLNHIGAPYCGDGKYSERLGECCDDGLVSGDCCSKVC	910
Db	6	GSVYQYVWITISGTESESPSPAVTYIHGSGYCGDGIIOKDQGEQCDDMNKINGDGCSLFC	65
QY	911	ELEEGFNCVGEPSLCMYEGDGICEPFEKTSIVDCGIYTPKGYLDQWATRAYSHEDKK	970
Db	66	RQEVSFNCIDEPSCRXYHGDGVCBEFEQKTSIKDCGYTPQGFILDQWASNASVSHQD-Q	124
QY	971	KCPVSLVTGEP-HSLICTSYHBDLPNHRPLTGWFPQVASENETQDDRSEQPEGSLKKEDE	1029
Db	125	QCPGWVIIQGPASQYCKRTKVIDLSEGISQHWAPCTISYPYSQ-----LAQTT	173
QY	1030	VWLKVCFNRPGEARAFIFLTTDGLVPGEHQPTVTLYLTDRGSNHSLSGTYGLSQCHNP	1089
Db	174	FMLRAYFSQPMVAAMAVIHLVTDGTYGQDKQETISVQLLDTKDQSHDLGLHVLSCANNP	233
QY	1090	LIINVTHQNVLFHHTTSVLIINFSSPRVGISAVALTSTSRIGLSAPSNCISEDEGQNHOG	1149
Db	234	LIIPVHDLISQPFYHQAVRVSFSSPLVAISGVALRSFDFNPVTLSSC-QRGETYSPAE	292
QY	1150	QSCIHRPCKQDSCPSLLLDHADVNCSTSI---GPIMKCAITCQRGFALOASSGQYIR	1205
Db	293	QSCVHFACEKTD-CBELAVENA-YLNCSSSDRYHG---AQCTVSCRTGYVLQIRRDELI	347
QY	1206	PMQ-KEILLTSSGHWQNVSLPVDGCVDPDSLNYANPSCSEGTFLKRCSISCVPP	1263
Db	348	KSQTGPSTVITCTEGKMNKQVACEBVDCSIPIDHQYAAASFSCPEGTTFGSQCSFQCRHP	407
QY	1264	AKLQGLSPWLTCLEBDGLMSLPEVYCKLECDAPRIILNANULLPHCLQDNHDVGTICKYEC	1323
Db	408	AQLKGNNSLLTCMEDGLMSFPEALCELMCLAPPVENADLOATARCRENKHKVGSFCKYKC	467
QY	1324	KPGYVAESAEGKVRNKLKIQCLEGGIWEQSCIPVCEPFPVFEQMYECTNGSLDS	1383
Db	468	KPGYHVPGSSR-KSKRAFKTQCTQDGSWQEGACVPTCDPPPKFHGLYQCTINGFQFNS	526
QY	1384	QCVLNC-----NOEREKLPILCTKEGLWTOEFKLECNLOGECPRPPELSNS-VEYKCEQG	1437
Db	527	ECRIKCEDSDASQGLGSNVITHCRKDGWTWNGSFHWQEMQGC-SVPNELNSNLKLOCPDG	585
QY	1438	YGIGAVCSPLCVTPPSPDPMLENITADTLEHMMPEPVKQOSIVCTGRROWHPDPVLVHCI	1497
Db	586	YALGSECATSCLDHNSSEIILPMNVTRDIPHMLNPTREVRVCTAGLKMYPHPALIHCV	645
QY	1498	QSCPEFQADGWCDTINNRAYCHYDGDCCSSITLSSKVIIPFADCDLD-ECTCRDPKAE	1556
Db	646	KGCEPFMGDNYCDALNNRAFCNYYDGDCCSTSTYKTKVTPFPMSCDLQGDCACRDPOADE	705
QY	1557	N 1557	
Db	706	H 706	

```

; RESULT 5
; US-09-911-842A-4
; Sequence 4, Application US/09911842A
; Patent No. 6656707
; GENERAL INFORMATION:
; APPLICANT: Amgen Inc.
; TITLE OF INVENTION: C3B/C4B COMPLEMENT RECEPTOR-LIKE MOLECULES AND USES THEREOF

```

FILE REFERENCE: 01017/37592
CURRENT APPLICATION NUMBER: US/09/911,842A
CURRENT FILING DATE: 2001-07-24
PRIOR APPLICATION NUMBER: US 60/222,438
PRIOR FILING DATE: 2000-08-01
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn version 3.0
SEQ ID NO 4
LENGTH: 3594
TYPE: PRT
ORGANISM: Mus musculus
FEATURE:
NAME/KEY: misc feature
LOCATION: (1757)..()
OTHER INFORMATION: Xaa = any or unknown amino acid
US-09-911-842A-4

Query Match 3.9%; Score 336.5; DB 4; Length 3594;
Best Local Similarity 19.2%; Pred. No. 6.4e-19;
Matches 343; Conservative 189; Mismatches 626; Indels 629; Gaps 99;

QY 53 AFTVEAWVKPEGONNPALIAVF---DNCSTVSDKGWALGIRSGDKGRDARFFFS 108
DB 1476 AVTCAFWMKSDVINYGTPISYALDDKDNFTLLTDYNGWLVYV-NGKEK----- 1524
QY 109 LCTDRVKKATILISHSRYPGTWTHVAATYD--GRHMAALYVD-----GTQVASSLDQ 158
DB 1525 -----ITNCPSPVNDGIMHIAITWTSIGAMRVYIDGELSDGTGLSIGAIPG 1573
QY 159 SGPLNSPFMAAGCSLLLGDSSEDEHYFR-----GHLGTLVFWSTAL-FQSHFQSSQH 211
DB 1574 GG-----ALVLGQEQDKKGEFNPASFVGSISQLNLMQVLSPOQVKLLAS-- 1620
QY 212 SSGBEATDLVLASFEPVNTWVPRDEKYPRLV-----LOGFEPEPEILS 259
DB 1621 SCPEELSRGNVLA-----WPDFLSGITGKVKVDSSSMFPCSDCPSESGSVPLRPAS 1671
QY 260 PLQPLCGQTV---CD-NVELIS--QY--NGYW--PLRGEKVIRYQVYVNICDEGLNP 307
DB 1672 GNRKP--GSKVSLFCDFGQWGNPVQYCLNQGWTPQLPHCERIR-----C---GLPP 1720
QY 308 IV-----SEQIRLQHEALNEAFSRY-----NISWQLSVHQVHNSTLRRVVL 350
DB 1721 ALENGFSYAEDFHAGSTVTYQCTSGYLLGDSRMFCXDNQSNW----- 1763
QY 351 VNCEPSKIGNHCDPECEHPLTGYDGDCLQRCYSWNRDGLCHVECNMLNDFDDGD 410
DB 1764 -GISPCLDVECAV-----GSDCSEHASCLNTN--GSYVCSNPPYTG-DGKN 1808
QY 411 CCDPQADVAKTCFDPDSPKRAYMSVKELKALQJNSTHFLNIYFASVREDLAGAA--- 467
DB 1809 CAEP-----VKCKAPENPENGRRS---GEIYTVGTA---VTFSCDEGHVGVSTIT 1854
QY 468 ---TWPMWK-----DAVTHLGGIVLSPAYYGMFGHTDTMIHEVGHVGLYHVEKGV-- 516
DB 1855 CLETGEWDLRPSCEAIS--CGVPVPVPENGGVDSAFYYSKV-----YRCDKGYTLGG 1907
QY 517 -ERESCNDPKETVPSMETGDLCACTAPTPKSELCREPEPTSD---TCGFTRFPGAPFT 571
DB 1908 DEESAC-----LASGS-WSHSSPVCGLVKCSQPEDINNGKYLISGLT----- 1948
QY 572 NYMSYTDNCTDNFTPNQVARMHCYLDLVYQWMTESRKPTPIPIPMVIGQ--TNKSLTI 629
DB 1949 -YLSIASYSCENGYSLSQPSLLECTASGSMRARPSQVLVSCGEPIYVDAVITGSNFTF 2007
QY 630 HMLRPIISGVYDRASGSLGCACTEDGTFRQYVHTASSRRVCDSSGYWTFEE---AVG-- 683
DB 2008 -----GNTVAYTCKEG-----YTLGAPDTIICQANGKNNSSNHQCLAVSCD 2048
QY 684 -PPVDVQPCFSPLOAMSPEVHLYHMMTVPCPTGCSLELLFQHPVQADTLTLMTWTSFFM 742
DB 2049 EPPNVDDHA-----SPET-----AHRLFGDT-----AFYYC 2073

QY 743 ESSQVLFDTIELLENKESVHLGP-----LDTFCDIPLTIKLHVDGKVGKVV----- 789
DB 2074 ADGYSLADNSQLICNAQGNWVPBAGQAVPRCLAHFCEKPPSVSYLSIESKAKFAAGSV 2133
QY 790 -----YTFDERIEIDALLTSQPHSPICSGCRPVRYQVLRDPP-FASGLP----- 833
DB 2134 VSPKMEGFVNTSAKIECLRGGEWSPSPSLVQICIPVR---CGEPSTANGYPSGTNYSF 2190
QY 834 --VVVTHSHRKFTDVEVTPGQMY--QYQVLAAGGELGEASPLNHI--HGAPYCGDGK 886
DB 2191 GAVVAYSCHKGF-----YIKGEKSTCEATGQWSKPTPTCHPVSCNBPVKVENGF 2240
QY 887 VSERLGE-----ECDDGDLVSGD-----GCSK----- 908
DB 2241 LEHTTGRTFSEBARFQCNPGYKAAGSPVFCQANRHMWSDAPLCTPLNGCKPPIQNGF 2300
QY 909 -----VCELBEGFNCVGEPSLCMYEGDGICEPFRKTSIYDCGIYTPKGY 954
DB 2301 LKGESFEVSGKVQFVC--NEGVELVGDNSWTCQKSGKMSKKP--SPKCVPTKCAEPPL 2355
QY 955 LDQWATRAYSHEDKKKCPVSLVT--GEPSLICTSYHBDLPNHRPLTGMP-----C 1005
DB 2356 ENQLVLKELASE-----VGVMTISCKEGTALQGPSVLKCLPSSQ--WNGSFPICMVL 2407
QY 1006 VASENETQDDBRSEQPEGLKKEDEVMLKYCFNRPGEARAIFI---PLTTDGLVPGEHQ 1060
DB 2408 -----PSPPL-----IPFGVPASSGALHFGSTVKYLCVDDGPF--LRG 2442
QY 1061 OPTVTLVLTDRGNSHSLGTYGLSCQHNPLIN-VTHQNVLFHHTSVLNLNFSSPRVGI 1119
DB 2443 SPTI-LCQADSTWSSPLPECVPVECPQPEELINGIHHVQLAYLSTLYTCKPGFELVG- 2500
QY 1120 SAVAL--RTSSRIG--LSAPSNCSISEGQNHQ-----GQ----- 1150
DB 2501 NATTLGENGQWLGGKPMCKPIECPEPKELINGQFSSVSFQYGQITITVPCDRGRLEGP 2560
QY 1151 --SCIHRPCGKQDSCPSLLLDHADVNVCTSIGP--GLMKCA-----ITQGRFAL 1196
DB 2561 SLTCLF--TGDMWMDP---PSCDAIHCSDPQPIENGFEVAGADRYGAMITYSCFPGFQV 2614
QY 1197 QASSGQYIRPMQKEILLTSSSGHW-DQNVSLPVDGVPD----- 1235
DB 2615 LGHAMQ-----TCEESGWSSSSPTCVPIDCGLPRPHIDFGDCTKYVRDQGHFDOE 2663
QY 1236 -----PSLVNYANFSCSEGTFL--KRCISICVPPAKLQGLSPWLT 1274
DB 2664 DMMEVPRYLAHQHLEATAKALENTKESBASHASHFLYGTWVSYSCEGYELLGI-PVLI 2722
QY 1275 CLEDGLMSLBEVYC-KLECDAPRIILNANULLPHCLQDNHDVGTICKYCKEGYVAESA 1333
DB 2723 CQEDGTWNGTAPSCISIECDLPVAPENGFL--HTQTT--MGSAAQYSCKGHILEGSH 2777
QY 1334 EGKVRNKLKIQCLEGGIWEQGS--CIPIVCEPPRPVPEG-----MYECTN 1377
DB 2778 -----LRL-CLQNKQW--SGTVPRCEAISCSKPNPLMNGSIKGDYSLGLVLYECDS 2827
QY 1378 GFSLDSQCVLNCNQERKLPILCTKEGLMTQEFKLCENLOGECPPPPSBLN----- 1428
DB 2828 GYILNGSKKRTQENRD-----WDGHEPMC--IPVDCGSPVPVLTNGRVKGBEYT 2874
QY 1429 ---SVEYKCGY-----GIGAVCSPL-CVIPSPDPMVLPENITADTL 1467
DB 2875 FQKEITYSCREGFILLEGARSRLCTINGWSGATPSCMPVRCAPAPQVP-----NGVADGL 2929
QY 1468 E-----HMEPVPKVQS--IVCTGRQWHPDPVLVHCIOGSEP 1502
DB 2930 DYGFKEVAFHCLGYVLQGAAPRLTCQSNGTWDAE-----VPVCKP 2970

RESULT 6
US-09-911-842A-2
; Sequence 2, Application US/09911842A
; Patent No. 6656707


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; GENERAL INFORMATION:
; APPLICANT: Amgen Inc.
; TITLE OF INVENTION: C3B/C4B COMPLEMENT RECEPTOR-LIKE MOLECULES AND USES THEREOF
; FILE REFERENCE: 01017/37592
; CURRENT APPLICATION NUMBER: US/09/911,842A
; CURRENT FILING DATE: 2001-07-24
; PRIOR APPLICATION NUMBER: US 60/222,438
; PRIOR FILING DATE: 2000-08-01
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 3571
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-911-842A-2

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Query Match 3.8%; Score 330.5; DB 4; Length 3571;
Best Local Similarity 19.9%; Pred. No. 2.1e-18;
Matches 353; Conservative 207; Mismatches 612; Indels 603; Gaps 106;

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Qy      53 AFTVEAMVKPEGGQNNPALIAGVFEDNCSTH--VSD-KGWAIGIRSGKDKGKRDARFFFS 108
      |||::|||::|||::|||::|||
Db     1450 ALTCTFWMKSSDDMNYGTPISTAYAVDNGSDNTLLLTIDYNGWLYV-NGREK----- 1498
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Qy      109 LCTDRVKKATILISHSRYPGTWTHVAATYDGRH--MALYDGTQVASSLDQSGPLNSPF 166
          : : | | : : : : | |
Db      1499 -----ITNCPSVNDGRWHHIAITWTSANGIWKVYIDGKLSDGAGLSVGLPIP- 1546

```

Qy 167 MASCRLLGGDSSSEDGHYR-----GHLGLVFWSTAL-POSHFQHSSQHSNGEEBEAT 219
 ::||| : : ||| | | | | | | | | | |
Db 1547 --GGALVLGGEQDKKKEEETPAESFVGSIQLNLMDYVLSPP---QVKSLATSCEPEELS 1601

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Qy      220 DLVLTASEFPVNTEWWPR-----DEK-----YPRL-----EVLQ----- 249
          : |         | |         | |         | |
Db      1602 KGNVLA-----WPDFLSGIVGKVKIDSKSIFCSDCPRLGGSVPHLRTASEDLKPGSK 16533

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QY      250 -----GF-----EPEP---EILSPDPL-----CGQTV- 270
          ||          :| |          |||
Db      1654 VNLFCDPGQLVGNPNVQYCLNQGQMTQPLPHCERISCGVPPLENGFHSADDFYAGSTVT 1713

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Qy      271  --CDNVELISQYNGYWPFLGCKVIRYQVNNICDDEGLNPVISEEQIRLQHEALNEAFSRY 328
          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db      1714 YQCN-----NGYYLLGDSRM-----FCTDNGSMNGVSPSCLVDDECAVGSDCSEH 1756

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QY      329 NISWQLSVHQVHNSTLRHRVLVNCPEPSKIGN-DHC-DP-ECE---HPLTGYDGDGDCRLQ 382
          | | | | | : | | | : | | | : | | | :
Db      1759 -----ASCLNVDGS-----YICSCVPPTGDKNCAPETIKCKAPGNPENGHSSGEIYTV 1807

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QY      383 G-----RCYSWNRRLDGLCHVEC-----NMLNLFDDGDCDDPQVADVVRTCTCFDPDPSPKR 431
      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
Db      1808 GAEVTFSCQEGYQLMGVTKITCLLESGEWNHLI-----PYCKAV--SCGKPAIPEN 1855

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QY 432 AYMSVKELKELQLNSTHTLNIFYASSVREDLAGAATPWMDKDAVTHLGGIVLSPAYYGM 491
::|||::|::|
Db 1856 G--CIEELAFTFGSKVYTRCNKGYTLLAGDKESSCLANSYNSHSP-----VCEPVKCS 1907

```
QY      492 PGHTDTMIHEVGHVLTGLYHVFVKGVSERESCNDPCKETVPSMETGDLCDATA-----P 543
          | : : | : : | : : | : : | : : | : : | : : | : : |
Db     1908 PENINN-----GKY-ILSGLYTLSTASYSC-DTGYSLQGSPSIIECTASGIWDRAP 1956
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QY 544 TPKSELCREPEPTSDTC-----GTRFGAPFTNMYSTDNDCTDNFTPNQVARMHCYLDL 599

Db 1957 ACHLVFCGEPPAIKDAVITGNNT-----FRNTVTYT---CKEGYTLAAGLDITICLAD- 2006

```
QY      600 VYQQWTESRK---PTPIPIPMVIGQTINKSLTIHWLPPISGVYDRASGSLGACTEDGT 656
          :|: | : ||:| : : | | : |
Db      2007 --GKWSRSDQQCLAVSCDEPPIVDHASPE--TAH-----RLFEDIAFYCCSPDG- 2050
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QY      657 FRQYVHTASSRRVCDDSSGWTPEEAVGPPD-VDQPC--PSLQAWSPEVHLTHNMNTVPC 713
      |  ::::| | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB     2051 ---YSLADNSQLTCNAQGKVVPEEGDMPRCIAHFCEKPSYS-----YSI----- 2093

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714 PTEGCSLELFFQHPVQADTLLWVTSFFMESSQVLFDETLLE-----NKESVHLGPL 766

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Db      2094  -----LESVSKAKFAAGS-----VVSFKCMGEFVL-NTSAKIECMRGQNMPSMSIQCI 2142
          ||  :  :  |  :  ||  ||  :  :  ||  :  :  :

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```

QY      767 DTFCDIPLTKLHVDKGVSGVKVTFDERL-----EIDALLTSQPHSPLCS 813
      |  :  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db    2143 PVRGGEPSI---MNGYASGSN-YSFAMAVAYSCNKGFIYIKGEKSTCEATQWSSPIPT 2198

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```

QY      814 GCRPVRQYVLRNDPEFASGLPVVVTSHRKFTDVEVTPGQMRYQYVLAEGSGELGEASPP  873
      |||      |||      |||      |||      |||      |||      |||      |||
Db 2199 -CHPV-----SCGEPKVENGF-----LEHTTGRIFESEVRQYQNDGYKSVGSPV  2242

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```

QY      874  -----NHIG-APY-----CG-----DGKVSERLGECCDGLVSGDGCS 90/
          |||  :|  ||  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|
Db      2243  FVCOANRHHWHSPLMCVPLDCGKPPILQNGFMKGGENFEVGSKVQFFCNEGIEYLVDG-S 2301

```

QY 908 KVCLEEGFNCVGEPSLCMYEGDICEPE-----RKTSIVDCGIYT---PK 952

Db 2302 WTCQSGKMWKSNPK-----CMPAKCEPPLLENQLVLKELTTEVGAVVTFSCKE 2351

QY 953 GYL-----DQWATRAYSSHEDKKCEVSLVTGEPHSLICTSYHDLJN---HK 99/
 Db 2352 GHVLOGPSVLKCLPSQQW-----NDSPYCKIVLCTPP-----LISFGVPIPPSALHF 2400

```

QY 998 PLTGMPFCVAS-----ENETQDDRSEQPEGSLKKEDEWV---LKVCFNKRGEARAIFILFL 1050
      | : || | | : | | |
Db 2401 GSTVKYSCVGGFFLRGNST-----TLCQPDGTWSSPLPEC----- 2435

```

QY 1051 TDGLVPGEHQGP-TVTLVLTVDVRGSHSLTGYGLSCQH-N-PLIINV-----HQNVLFHH 1104

Db 2436 ----VPVECPQPEEIPNGIIDVQGLAY-ISTALYTCKPGFELVGNTTTLGSENGHWLGSK 2490

Db 2491 PTCKAIECLKPEKILNGKFSYTDLHYGQIVTYS---NRGFRLEGPSALTCLL--TGDDW 2545

```

QY      1162  -SCPSTLLEHADVNCISIGP---GLMKCA-----ITCQKGFALQASSGQIRKFMQ 1208
      ||      :  ::  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db      2546  VDAPF-----CNAIHCDSPQPIENGFEVAGADYSYGAIIITYSCFPGFQVAGHAMQ----- 2594

```

```

QY      1209 KEILITCSSGHWQNV-SCLPVDQGV-----DFSLVNI-----1241
          ||      :::|:|:|:|:|
Db      2595 -----TCEESGWSSSIPTCMPIDGGLPHRIDFGDCTKLKDDQGYFEQEDDMNEVPVTPH 2649

```

```

QY 1242-----ANFSCSEGR-----FL--KRCISICVFPKALQGLSPWLCLEDEGLMSLP 1284
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 2650 PPHYLGAVAKTWTNKESPATHSSNFLGYIMVSYTCNPGYELLG-NPVLICQEDGTWNGS 2708

```

```
QY      1285 EVYC-KLECDAPFLLINANLLEPHCLQDNDVGLICNIECNFGIIVAESESGVNKMLLN 1373
          | : ||| | | : : : |||| : : |
Db      2709 APSCTSIECDLPFAPENGFLRTET-----SMGSAVOYSCKPGHILVGSD-----LR 2755
```

```

QY      1344  IQCLEBGSIMEDQS--CIFVVCLEFFFEFFVEG-----MICLINGSDSCV 1368
      : ||| | : ||| | : ||| |
Db      2756  L-CLENRKMGASPRCEAISCKKPNPVNNGSIKGSNTYTLSTLYYECDPGY-----VLN 2808

```

[illegible]

```

07      |-----GIGAVCSFLCVLFFSDVWMLFENIINOLUUNHFWVA-----|
    143 / G I -----          |   |   |   |   :   |
Db      |-----GFLLEGARSRVCLANGSMSGATPDCVPKCATPP---QLANGVTGLDYGFMKEVTFHC 2917
    2862

```

```

QY      1476 -----VQSIVCIGKKQMHPDFVLVHCLVSCSEF 1502
          : | : | : | : | : | : | : | : | : | : | : | : |
Db      2918 HEGYILHGAPKLTQOSDGNWDAE-----IPLCKP 2946

```

RESULT 7
5256642-10

APPLICANT: FEARON, DOUGLAS T.; KLICKSTEIN, LLOYD B.; WONG,
WINNIE W.; CARSON, GERALD R.; CONCINO, MICHAEL F.; IP, STEPHEN


```

RESULT 8
5472939-10
; Patent No. 5472939
; APPLICANT: FEARON, DOUGLAS T.; KLIKSTEIN, LLOYD B.; WONG,
; WINNIE W.; CARSON, GERALD R.; CONCINO, MICHAEL F.; IP, STEPHEN
; H.; MAKRIDES, SAVVAS; MARSH, HENRY C. JR.
; TITLE OF INVENTION: METHOD OF TREATING COMPLEMENT
; MEDIATED DISORDERS
; NUMBER OF SEQUENCES: 30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/138,825
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 588,128
; FILING DATE: 24-SEP-1990
; APPLICATION NUMBER: 412,745
; FILING DATE: 26-SEP-1989
; APPLICATION NUMBER: 332,865
; FILING DATE: 03-APR-1989
; APPLICATION NUMBER: 176,532
; FILING DATE: 01-APR-1988
; SEQ ID NO.: 10:
; LENGTH: 2006
5472939-10

```

Query Match 3.3%; Score 287.5; DB 6; Length 1847;
Best Local Similarity 19.1%; Pred. No. 4.1e-15;
Matches 349; Conservative 178; Mismatches 548; Indels 751; Gaps 105;

OY	221	LVLTA	SFEPVNT-EWVPF-----RDE-----KYPRLEVIQGFEEPEILSPLQPPL--	265
Dp	39	LALPVAWGQCNAPEWLFPARPTNLTDEFEFPIGTYLANYECRPFGSGRPFSSICLKNSWVT	98	
OY	266	CGQTVC DN-----	VELISQYNGWYPLRGEKVI	292
Dp	99	GAKDRCRKRKSCRNPDPVNGMVHVKIGIQFGSQIKYSTKGYRLIGSSSATCIIISGDTVI	158	
OY	293	RQOVN	ICD-DEGLNPVSEEQIRLQHEALNEAF---SRYNISMQLSVHQVHNSTLRHR	347
Dp	159	WDNETPICDRIPCGLPPTIT-----	NGDFISTNRNFHY-----GS	194
OY	348	VVLVNCEPSKIGND-----	HCDPECEHPLTGYDG--DCRLQGRCYSWNRDGL	394
Dp	195	VVTYRCNPGSGGRKVFEIVGBESTICTSNDDQ-VGIWSGPAPQCIIPNKCTPPNVENGI	252	
OY	395	CHEVCNNM-LNDFDDGDC-----	C-----DPQVADVKTCTCFDPDSPRAY	433
Dp	253	LVS DNRSLFLSINEVEFRQQPVFMKGPRRVKCQALINKWEPELSCSRVCQPPDLHA-	311	
OY	434	MSVKELKEALQLNSTHF--LNITYPASSVREDLAGAATW-----	PWKDAVT-----	477
Dp	312	ERTQRDKDNFS PGQEIVFYSCPEGYDLRGAA SMRCTPOGDWS PAAPTCEVKS CD	364	
OY	478	HLGGIVLSPAYYGMPGHTDTMIHEGVHLG--LYHVFKG-----	VSERE	519
Dp	365	DFMGQLNGRVLFPVNIQLGA KVD FV CDE G F Q LK GS S A SY CV LAGNESLMNSSVPVCEOI	424	
OY	520	SCNDPCKETVPS-METG-----	DU CAD-----	540
Dp	425	FC-PSPPIVINGRH TGKPLEVF PF GKAVNYTCDPHPD RGTSFDLLIGESTIRCTSDPOGN	482	
OY	541	TAPTPKSEL--CREPE-----	PTS DT CGFT RFP--GAPFTNYS	575
Dp	483	GWSSSPAPRCGILGHCCQAPDHFLFAKLKTQTNASDP IGTSLKYE CRPEYYGR PFS---	538	
OY	576	YT D NCTDNF---TPNQVARMH CYLDLVYQOWTESRKPTPIPIP NV-----	619	
Dp	539	ITCLDNLVWSSPKDVCK-----	RKSC KT PP DP V NG MV H VT DI QVGSRIN	583
OY	620	IGQTNKSLTI-----HW--LPPI-----SGVVYDRASGSLGACTEDGTFR	658	

D	b	584	YSCTTGHRLLIGHSSAECILSGNAAHWSTKPRICQRI	PCGLPPTIANGDPI	-----	STNR	637	
Q	y	659	QYVHTAS--SRVCDSSGYWTPPEAVGPPDV-----	DQPCPSLQAWS-	PEVHLYHMM	709		
D	b	638	ENFHGYSVVTYRCNPDGSGRKVFELVGEPSICTSNDQ	-----	VGIMSGPAPQCIIPNK	692		
Q	y	710	TVPCPTEGCSLELLFQHFPVQADTLTLMWTSFEMESSQVL	FDTEILLE--	NKESVHLGRL	766		
D	b	693	CTPBNVE-----	NGILVSDNRSLFSLNEVEFEPCQDGFVMKGR	731			
Q	y	767	DTFCDIPLTIKLHVDGKSVGVKVTFDERIEIDALLTSQPHSPLCSG	-CRPVRYQVLRD	825			
D	b	732	RVKCQ-----	ALNKMBELPSCSRVCP	-----	754		
Q	y	826	PPFASGLPVVVTYHSHRKFTDVE-VTPGQMYQYOVLA	EAGGEL-GEAS----	PLNHIHGA	879		
D	b	755	-----PPDVLHARTQRPDKDNFS	PGQEVYYS--	CEPGYDLRGAASMRCTPOGDWSPA	805		
Q	y	880	PYCG-----	DGK--VSERLGE-----	CDDGDLVSGDGS-----	907		
D	b	806	PTCEVKS	CDDFMGQLNGRVLFPVNLQLGAKYDEV	CDEGFOLKGSASAYCVLAGMESLMN	865		
Q	y	908	---KVCE-----	LE-----	EGFNCVGEPSL-C	925		
D	b	866	SSVPVCEQIFCPSBPVI	PNGRHTGKPLEVFPFGKAVNYTCDPHDRGTS	FDLIGESTIRC	925		
Q	y	926	YM-YEGDI-----	CE-----	PERKTSIVDCGIYT-----	PKGY--	954	
D	b	926	TSDPQNGVWSSPAPRCGILGH	CQAPDHLFAKLKTQTNASDP	IGTSLKYECRPEYYGR	985		
Q	y	955	-----LDQMATRAYSSHED--	KKKC--	PVSLVTGEPHSLI-----	CTSYHPD	992	
D	b	986	PFSTITCLD--	NLVWSSPKDVC	KRKSKCTPRDPVNGMVHITDIOVGS	RINYSTTGH-R	1041	
Q	y	993	LPNHR-----	PLTGWPPC-----	VASENETQDDRSEQPSGLKKEDEV	1030		
D	b	1042	LIGHSSAECILSGNTAHWSTKPRICQRI	PCGLPPTIANGD	FISTNRENFHGSV-----	1095		
Q	y	1031	WLKVCFNRPGEARAI	F-----	IFLTDTG-----	LVPGHQPTVT--	LYL	1068
D	b	1096	-VTYRCNLGSRGRKVFELVGEPSICTSNDQ	VGIMSGPAPQCIIPNK	CTPBNVENGILV	1154		
Q	y	1069	TDVRGSNHSL-----	GTGGLSCQ-----	HNPLINVTTHQNVL	FH	1103	
D	b	1155	SD-----	NRSLFSLNEVDFRCQGFVMKGP	RRVYCCQALNKMBELPSCSRVCP	PREILH	1210	
Q	y	1104	--HTSVLNFSSPRVGISAVALRTSSRIGLSAPNSCISEDEG	QNHQOSCTHRPCGQ-	1160			
D	b	1211	GEHTPSHQDNFSP-----	GQEVFYSC--	EPGYDLRGAASLH--	CTPQG	1249	
Q	y	1161	-----	DSCPSLL--	LDHADVNVCTSIGPGLMKCAITQ	RGFALQASSGQYIRPM	1207	
D	b	1250	DWSPEAPRC	AVKSCDDFLGQLPHGRVLP	PLNLQLG-AKVSFVCDEG	FRLKSSVSH----	1304	
Q	y	1208	QKEILLTSSGHWQDONS-CLP	VDGVPDP	SLVNYANFSCSEG-TKFLKRC	SISCVP--	1262	
D	b	1305	---CVLWGRSLMNNNSVPVCEHIFCPNP-	PAILNGRHTGTPSGDIPYKEI	SYTCDFHPD	1360		
Q	y	1263	---PAKLG	LSPWLCTLED---GLWSLPEVYCKL----	ECDAPIILNALLPHCLQ	1310		
D	b	1361	RGMTFNLIGEST-IRCTSDPHGNGVWSSPAPRC	ELSVRAGHCKTPEQFPFASPTIP-	IN	1417		
Q	y	1311	D-NHDVGTICKYECKP	GYVVAESAEGKVRNKLKIQCLEG	GIWE--QGS	CIPVCEPPPP	1367	
D	b	1418	DPEFPVGTSLNYECRPGYF-----	GKMFIS	CLLENLWMSVEDNCRRKSGCPPE	1467		
Q	y	1368	VFEGM-----	YECTNGFSL----	DSQCVLNCNQER	EKLPIILCTKEGLWQ	1409	
D	b	1468	PFNGMVHINTDQ	FSGSTVNYSCNEGFRLLIGSP	STTCLVSGNNV-----	TWDXK	1515	
Q	y	1410	FKL	CENLQGECP	PPSELNS-----	VEYKCEQYG-----	1439	
D	b	1516	APICEI	I--SCEPPPTISNGD	FYSNNRTSFHNGTIVVTYQCHTGP	DGEQLFELVGERSIYC	1573	

[illegible]

Query Match	3.3%	Score 287.5	DB 6	Length 1847
Best Local Similarity	19.1%	Pred. No. 4.1e-15		
Matches 349	Conservative 178	Mismatches 548	Indels 751	Gaps 105
QY	221	LVLTA\$FEPVNT-EWVPF-----RDE-----KYPRLEVQGFEEPEEL\$PLQPP--	265	
DB	39	LALPVAWGQCNAP\$EWL\$FARPTNLTDEFEFPITGYLNEYCRPGYSGRPF\$ITCLKN\$VWT	98	
QY	266	-----CGQTVCDN-----	292	
DB	99	GAKDRCRKRK\$CRNPDPVNGMVHVIKIQFG\$QIKY\$CTKGYRLLIGSS\$ATCIISGDTVI	158	
QY	293	RYQVNNICD--DEGLNPIV\$EQIRLQHEALNEAF--SRYNISWQLSVHQVHN\$TLRHR	347	
DB	159	WDNETPICDRIPCGLPPTIT-----NGDFISTREN\$FHY-----GS	194	
QY	348	VVLVNCEP\$KIGND-----HCDPECEHPLTGYDG--DCRLQGRCY\$WNRDGL	394	
DB	195	VVTYRCNPGSGGRKVFELVGB\$SIYCT\$NDQ--VGIMS\$GARQCIIPNKCTPRNVENGI	252	
QY	395	CHVECNM--LNDFDDGDC-----C-----DPQADVRKTCFDPD\$PKRAY	433	
DB	253	LVS\$DNRSL\$FL\$NEVE\$FRQ\$P\$VFMKGPRRVKQ\$QALNKWEPEL\$P\$CSRVQ\$PPDVIAH-	311	
QY	434	MSVKELKEALQ\$LN\$THF--LNIYFA\$SVREDLA\$GATW-----P\$WDKDAVT-----	477	
DB	312	-----ERTQ\$DKDNF\$PQ\$Q\$E\$V\$Y\$SCEP\$GYDLRGA\$SMRCTPQGDW\$PAAPTCEVX\$CD	364	
QY	478	-----HLG\$IVL\$P\$AYYGM\$P\$GHTD\$TMIEH\$GVHLG--LYHVF\$G-----V\$ERE	519	
DB	365	DFM\$Q\$LLNGRVL\$F\$PVNLQ\$GAKYD\$FVCDEG\$FQ\$KG\$S\$ASICYLAGMESLWNS\$V\$PVC\$QI	424	
QY	520	SCNDPCK\$ETVPS-METG-----	540	
DB	425	FC--P\$PPV\$IPNGRHTGK\$P\$LEVFP\$GKAVNYTCDP\$HPDRGTSFDLIGESTIRCTSDPQGN	482	
QY	541	---TAPTPK\$SEL--CREPE-----PTSDTCG\$FTRFP--GAPFTNYS	575	
DB	483	GWSS\$PAPRCGILGHCOAP\$H\$PLFAKLTQTNASD\$FPIGTS\$LKYECRPEY\$YGRPFS----	538	

Qy	576	YTDNCTDNF--TPNOVARMHCYLDLVYQOMTESRKPPIPIPMV-----	619
Db	539	---ITCLDNLWSSPKDVCK-----RKSKTPRDPVNGMVHITDIQVGSRIN	583
Qy	620	-----IGQTKSLTI---HW-LPPI-----SGVYDRAGSLGACTEDGTR	658
Db	584	YSCCTGHRLLIGHSSAECILSGNAHMWSTKPIQORIPCGLPRTIANGDFI-----STNR	637
Qy	659	QYVHTAS--SRRVCDSSGYWTPEBAVGPRDV-----DQCEPSLQAWS--DEVHLYHNM	709
Db	638	ENFHYGSVVTYRCNPGSGGRKVFELVGEPSIYCTSNDDQ-----VGIMSGPARQCIIPNK	692
Qy	710	TVPCPTEGCSLELFPQHPVQADTLTLWTSFPMESSQVLPDTEILLE--NKSVDHLGPL	766
Db	693	CTPPNVE-----NGILVSDNRSLFSLNEVVEFRCDQGFVMKGR	731
Qy	767	DTECDIPLTIKLHVDGKVGKVTYFDERIEIDALLTSOPHSPLCSG-CRPVRYQVLRD	825
Db	732	RVKCQ-----ALNKMEPELPSCSRVCQ-----	754
Qy	826	PPFASGLPVVVTSHRKFTDVE-VTPGQMYQYVLAEAGEL-GEAS---PELNHIGA	879
Db	755	-----PPDVLHAERQORDKDNFSPGQEVFYS--CEGYDLRGAASMRCTQGDWSPA	805
Qy	880	PYCG-----DGK---VSERLGE-----CDDGDLVSGDCS-----	907
Db	806	PTCEVKSCDDFMGLNGRVLFPVNLQIAKVDVFCDEGFQLKSSASYCVLAGMESLMN	865
Qy	908	---KVCE-----LE-----EGFNCVGEPSL-C	925
Db	866	SSVPVCEQIFCPSPPVIPNGRHTGKPLEVFPFGKAVNYTCDPHDRGTSDILIGESTIRC	925
Qy	926	YM-YEGDI-----CE-----PFRKTSIVDCGIYT-----PKGY--	954
Db	926	TSDPQNGVWSSPARRCILGHQCAPDHFLLFAKLKTQTNASDFIGTSLKYEGRPEYYGR	985
Qy	955	-----LDQMATRAYSHED--KKC--PVSIVTGEPSLI-----CTSYHPD	992
Db	986	PSITICLD--NLWSSPKDVCKRKSKCKTPPDVNGMVHITDIQVGSRINYSCCTGH-R	1041
Qy	993	LENHR-----PLTGWPPC-----VASENETQDDRSEQPESSLKEDEV	1030
Db	1042	LIGHSSAECILSGNTAHMSTKPIQORIPCGLPRTIANGDFISTNRENFHYGSV-----	1095
Qy	1031	WLKVCFNRPGEARAF-----IFLTIDG-----LVPGHQOPTVT--LYL	1068
Db	1096	-VTYRCNLGSRGRKVFELVGEPSIYCTSNDDQYIGSGPARQCIIPNKCTPBNVENGILV	1154
Qy	1069	TDVRGSNHSL-----GTYGLSQ-----HNPLIINTHQNVLFH	1103
Db	1155	SD---NRSLSFSLNEVYDFRCQGFVMKGRPRVYCOALNKMEPELPSCSRVCQRPPEILH	1210
Qy	1104	-HTSVLNFSSPRVIGISAVALRTSSRIGLSAPNSNCISEDEGQNHQGSCTHRPCGKQ-	1160
Db	1211	GEHTPSHQDNFSP-----GQEVFYSC--EPGYDLRGAASLH--CTPQG	1249
Qy	1161	-----DSCPSLL--LDHADVNVCTSIGFGLMKCAITQCRGFALQASSGQYIRPM	1207
Db	1250	DWSPEARCAVKSDDFLGQLPHGRVLPPLNLQLG-AKVSFVCDGFRLLKSSVSH---	1304
Qy	1208	QKEILLTSSGHWQNVS-CLPVDGVPDPSPSLVYANFSCSEG-TKFLKRCSISCVP--	1262
Db	1305	---CVLVGMRSLMNNNSYVPCHEHIFCPNP-PALINGRHTGTPSGDIPIYGKEISYTCDPHPD	1360
Qy	1263	---PAKQGLSPWLTCLED---GLWSLPEVYCKL-----ECDAPILNANLULPHCLQ	1310
Db	1361	RGMTFNLIgest-IRCTSDPHGNGVWSSPARCSELSVRAGHCKTPEQFPFASPTIR--IN	1417
Qy	1311	D-NHDVGTICKYECKPGYVVAESAEGKVRNKLKIQCLEGGIWE--QGSCIPVVCBPPP	1367
Db	1418	DPEFPVGTSLNYECPGYF-----GKNFESISCLENLVWSSVEDNCRKKS CGPPPE	1467

Dd	926	TSDPQNGVWSSPARRCILGHCCQAPDHF.LPAKLTQTNASDFICTSLKYECRPEYYGR	985
Qy	955	-----LDQMATRAYSSHED--KKC--PVSLVTGEPHSLI-----CTSYHPD	992
Dd	986	PFSITCLD--NLVWSSPKDVCKRKSKCTPPDPVNGMVHVITDIQVGSRINYSCTTGH-R	1041
Qy	993	LENHR-----PLTGWPFC-----VASENETQDDRSEQPEGLKKEDEV	1030
Dd	1042	LIGHSSAECILSGNTAWSTKPRICQRI.PCGLPBTIANGDFISTNRENFHYGSV-----	1095
Qy	1031	WLKVCENRPGEARAF-----IFLTTDG-----LVPGHQOPTVT--LYL	1068
Dd	1096	-VTYRCNLGSRGRKVFELVGEPSIYCTSNDDQYIGSGPACIIIPNKCTBPVENEGILV	1154
Qy	1069	TDVRGSNHSL-----GTYGLSQO-----HNPLIINTHQNVLFH	1103
Dd	1155	SD----NRSLFSLNEVVD.FRCQPGFVMKGPRRYCQALNKMEBELPSCSRVCO.RPREILH	1210
Qy	1104	--HTSVLLNFSSPRVGISAVALTRTSSRIGLSAPNSNCISEDEQNHOQSCTHRPCGKO-	1160
Dd	1211	GEHTPSHQDNFSP-----QQEVFYSC--EPGYDLRGAA.SLH--CTPOG	1249
Qy	1161	-----DSCPBLI--LDHADVNCTSIGFGMLMCAITCQRGFALOASSGOYIRPM	1207
Dd	1250	DWSPEARCAVKSCDDEL.GQLPHGRVL.FPLNLQLG-AKVSFVCDGEFRLKSSVS.H----	1304
Qy	1208	QKEILLTCSSGHWDQNTS-CL.PVDCGV.PDSPISLVNYANFSCSEG-TKFLKRCSISCVP---	1262
Dd	1305	---CVLVGMRS.LMNNS.VPVCHEHIFCPNP-PALINGRH.TGPSGD.IPYGKETSYTCDPHPD	1360
Qy	1263	---PAKLQGLSPWL.TCLED---GLWSLPEVYCKL-----ECDAPIL.NANULLPHCLO	1310
Dd	1361	RGMTFN.LIGEST-IRCTSDPHGNVWSSPARCELSVRAGHCKTP.EQFPFASPTIP--IN	1417
Qy	1311	D-NHDVGTICKYECKPGYVVAESAEGKVRNKLKIQCLEGGIME--QGSGCIPVVCBPPP	1367
Dd	1418	D.FEFPVGTSLNYECRPGYF-----GKNFESIS.CLENLVWSSVEDNCRRKSCGP.PPB	1467

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QY 1368 VEEGM-----YECTNGFSL---DSQCVLNCNQEREKLPILCTKEGLWTOE 1409
Db 1468 PFNGMVHINTDQFGSTVNVYSCNEGFRLLIGSPSTCTLVSGNNV-----TWDXK 1515
QY 1410 FKLCENLQGECPPESELS-----VEYKCEQGYG----- 1439
Db 1516 APICEII--SCEPPTISNGDFYSNNRTSFHNGTWTYQCHTGPDGEQLFELVGERSIYC 1573
QY 1440 -----IGAVCSP-----LCVIPP-SDPVMLPENIT---ADTLEHMER---VKV 1476
Db 1574 TSKDDQGVWSSPPRCISTNKCTAPEVENAIRVGNRSFSLTEIRRCQPGFVMVGS 1633
QY 1477 QSIIVCTGRROWHPDVLVHCIOQCEP 1502
Db 1634 HTVQCQTNGRW--GPKLPHCSRVCQP 1657

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RESULT 10
5472939-10
; Patent No. 5472939
; APPLICANT: FEARON, DOUGLAS T.; KLICKSTEIN, LLOYD B.; WONG,
; WINNIE W.; CARSON, GERALD R.; CONCINO, MICHAEL F.; IP, STEPHEN
; H.; MAKRIDES, SAVVAS; MARSH, HENRY C. JR.
; TITLE OF INVENTION: METHOD OF TREATING COMPLEMENT
; MEDIATED DISORDERS
; NUMBER OF SEQUENCES: 30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/138,825
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 588,128
; FILING DATE: 24-SEP-1990
; APPLICATION NUMBER: 412,745
; FILING DATE: 26-SEP-1989
; APPLICATION NUMBER: 332,865
; FILING DATE: 03-APR-1989
; APPLICATION NUMBER: 176,532
; FILING DATE: 01-APR-1988
; SEQ ID NO:10:
; LENGTH: 2006
5472939-10

```

```

Query Match 3.3%; Score 287.5; DB 6; Length 1847;
Best Local Similarity 19.1%; Pred. No. 4.1e-15;
Matches 349; Conservative 178; Mismatches 548; Indels 751; Gaps 105;

QY 221 LVLTFASFEPVNT-EMVPE-----RDE-----KYPRLEVLQGFEPPELISPLQPL-- 265
Db 39 LALPVAWGQCNAPENLRFARPTNLTFDEFEPPTGYLYNTECRPGYSGRPFSTICLKNSVWT 98
QY 266 -----CGQTVCDN-----VELISQYNGVWPLRGEKVI 292
Db 99 GAKDRCKRKSCKNPPDPVNGMVHVIKIQFGSQIKYSC TKGYRLIGSSSATCIISGDTVI 158
QY 293 RYQVNNICD--DEGLNPVSEEQIRLQHEALNEAF---SRYNISWQLSVHQVHNSTLRHR 347
Db 159 WDNETPICDRIPCGLPPTIT-----NGDPFISTNRENFHY-----GS 194
QY 348 VVLVNCEPSKIGND-----HCDPECEHPLTGYDGG--DCRLQGRGYSMNRRDGL 394
Db 195 VVTYRCNPGSGGRKVELVGEPSIYCTSNDDQ--VGIWSGPAQCIIIPNKCTPPNVENG I 252
QY 395 CHVECNMM--LNDFDGDC-----C-----DQOVADVRAKTCFDPDSPKRAY 433
Db 253 LVSDNRSLFSLNEVEFRQCQVFVMKGP RRVKCALNKMEBELPSCSRVCQPPPDVLAH- 311
QY 434 MSVKELKEALQLNSTHF--LNIYFASSVREDLAGAATW-----PMDKAVT----- 477
Db 312 -----ERTQDKDNFS PGQEVFYSCPEGYDLRGAASMRCTPOGDWSPAAPTCCEVKS CD 364
QY 478 -----HLGGIVLSPAYYGMPGHTDTMIHEVGHVLC---LYHVFKG-----VSERE 519
Db 365 DFMQQLNGRVLFPVNIQLGAKVDFVCDEGFQKSSASYS CVLAGMESLWNSSVFPVCEQI 424

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QY 520 SCNDPCKETVPS-METG-----DLCAD----- 540
Db 425 FC--PSPVPIPNGRHTGKPLVEFPFGKAVNTCDPHPRDGTSDLLIGESTIRCTSDPQGN 482
QY 541 ---TAPTPKSEL---CREPE-----PTSDTCGFTFRP---GAPFTNWS 575
Db 483 GWSSPAPRCGILGHCOAPDHFLEAKLTQTNASDPFIPTISLKYECRPEYGRPFS---- 538
QY 576 YTDNCTDNF--TPNOVARMCYLDLVYQOWTESRKPTPIPIPMV----- 619
Db 539 ---ITCLDNLWSSPKDVCK-----RKSCKTPPDVNGMVHVTIDIQVGRIN 583
QY 620 -----IGQTNKSLTI-----HW--LPI-----SGVYVDRASGSLCGACTEDGTFR 658
Db 584 YSCTTGHRLIGHSSAECILSGNAHMTKRPICQRI PCGLPPTIANGDFI-----STNR 637
QY 659 QYVHTAS--SRVCDSSGYWTPPEAVGPPDV-----DQCEPSLQAWS--PEVHLYHMM 709
Db 638 ENFHYGSVVTYRCNPGSGGRKVFELVGEPSIYCTSNDDQ-----VGIWSGPAQCIIIPNK 692
QY 710 TVPCPTEGSLELLFQHPVQADTLTLMWTSFMESSQVLPDTEILLE--NKESVHLGPL 766
Db 693 CTPPNVE-----NGILVSDNRSLFSLNEVEFRQCQPGFVMKGP 731
QY 767 DTFCDIFLTIKLHVDKVGKVVYTFDERIEIDALLTSQPHSPLCSG--CRPVRYQVLRD 825
Db 732 RVKQ-----ALNKMEBELPSCSRVCQP----- 754
QY 826 PPFASGLPVVYTHSHRKFTDVE-VTPGOMYQOVLAEGEL-GEAS---PLNHIHGA 879
Db 755 -----PDVLAERTQDKDNFS PGQEVFYSCPEGYDLRGAASMRCTPOGDWSPAA 805
QY 880 PYCG-----DGK---YSERLGE-----CDDGLVSGDGS----- 907
Db 806 PTCVKS CDDFMQQLNGRVLFPVNIQLGAKVDFVCDEGFQKSSASYS CVLAGMESLWN 865
QY 908 ---KVCE-----LE-----EGFNCVGEPSL-C 925
Db 866 SSVPVCEQIFCSPPIVINGRHTGKPLEVEFPFGKAVNTCDPHPRDGTSTFDLIGESTIRC 925
QY 926 YM-YEGDGI-----CE-----PFERKTSIVDCGIYT-----PKGY-- 954
Db 926 TSDPQNGWSSPAPRCGILGHCOAPDHFLEAKLTQTNASDPFIPTISLKYECRPEYGR 985
QY 955 -----LDQWATRAYSHED---KKC--PVSLVTGEPSHL-----CTSYPHD 992
Db 986 PFSITCLD--NLWSSPKDVCKRKSCKTPPDVNGMVHVTIDIQVGRINYSCTTGH-R 1041
QY 993 LPNHR-----PLTGWFP-----VASENETQDDRSEQPEGLKKEDEV 1030
Db 1042 LIGHSABCILSGNTAHMTKRPICQRI PCGLPPTIANGDFISTNRENFHYGSV----- 1095
QY 1031 WLKVCFNRPGEARAIF-----IFLTJTG-----LVPEGHQOPTVT--LYL 1068
Db 1096 -VTYRCNUGSRGRKVFELVGEPSIYCTSNDDQVGIWSGPAQCIIIPNKCTPPNVENG I LV 1154
QY 1069 TDVRSNHS L-----GTYGLSCQ-----HNPLIINVTHQNVLFH 1103
Db 1155 SD-----NRSLSLNEVDFRCQPGFVMKGP RRVKCALNKMEBELPSCSRVCQPPPEILH 1210
QY 1104 --HTTSVLINFS SP RVGISAVALTSSRIGLSAPSNCSISEDEGQNHOGOSCIHRPCGKO- 1160
Db 1211 GEHTPSHDNFS-----GOEVFYSC--EPGYDLRGAASLH--CTPQG 1249
QY 1161 -----DSCPSSL--LDHADVNCTSIGPLMKCAITCQGFALQASSGQYIRPM 1207
Db 1250 DWSPEAPRCVKS CDDFLGQLPHGRVLPPLNLQLG-AKVSFVCDGFRLLKSSSVSH--- 1304
QY 1208 QKEILLTSSGHWQDQNS-CLPYDCGVDPDSLNVYANFSCSEG-TKFLKRCISISCVP--- 1262
Db 1305 ---CVLVGMRSLWNNSVPVCEHIFCPNP-PAILNGRHTGTPSGDIPYGEISYTCDPHPD 1360

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QY 1263 ---PAKLOGLSPMLTCLD---GLMSLPEVYCKL---ECDAPITILNANLLPHCLQ 1310
Db 1361 RGMTFNLIGEST-IRCTSDPHGNVWSSPAPRCELSVRAGHCKTPEQFPFASPTIP--IN 1417
QY 1311 D-NHDVGTICKYECKPGYYVAESAEGKVRNKLKIQCLEGIWE--QGSCTPVVCEBPBP 1367
Db 1418 DEEPFVGTSLNYECRPGYF-----GKMFISICLENLVWSSVEDNCRKRSCEBPPE 1467
QY 1368 VFEGM-----YECTNGFSL---DSQCVLNCQNEREKLPICTKEGLWTQE 1409
Db 1468 PFNGMVHINTDTQFGSTVNVSCNEGFRLLIGSPSTCLVSGNNV-----TWDXK 1515
QY 1410 FKLCENLQGECPPPSELNS-----VEYKEQGYG----- 1439
Db 1516 APICEI--SCEPPPTISNGDFYSNNRTSPFHNGTVVYQCHTGPDEQLFELVGERSTYC 1573
QY 1440 -----IGAVCSP-----LCVIIP-SDPVMLEPNT---ADTLEHMMEP---VKV 1476
Db 1574 TSKDDQGVWSSPPPRCISTINKCTAPEVENAIRVPGNRSFSLTEIRFRCCQGFVWGS 1633
QY 1477 OSIIVCTGRQWHPDPVLVHCIQSCEP 1502
Db 1634 HTVQCQCTNGRW--GPKLPHGSRVQCP 1657

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RESULT 11
5256642-2
; Patent No. 5256642
; APPLICANT: FEARON, DOUGLAS T.; KLICKSTEIN, LLOYD B.; WONG,
; WINNIE W.; CARSON, GERALD R.; CONCINO, MICHAEL F.; IP, STEPHEN
; H.; MAKRIDES, SAVVAS; MARSH, HENRY C. JR.
; TITLE OF INVENTION: COMPOSITIONS OF SOLUBLE COMPLEMENT
; RECEPTOR 1 (CR1) AND A THROMBOLYTIC AGENT, AND THE METHODS OF
; USE THEREOF
; NUMBER OF SEQUENCES: 30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/588,128
; FILING DATE: 24-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 412,745
; FILING DATE: 26-SEP-1989
; APPLICATION NUMBER: 332,865
; FILING DATE: 03-APR-1989
; APPLICATION NUMBER: 176,532
; FILING DATE: 01-APR-1988
; SEQ ID NO: 2
; LENGTH: 2039
5256642-2

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Query Match 3.3%; Score 287.5; DB 6; Length 2039;
Best Local Similarity 19.1%; Pred. No. 4.8e-15;
Matches 349; Conservative 178; Mismatches 548; Indels 751; Gaps 105;

QY		221	LVLITASFEFPVNT-EWVPF-----RDE-----KYPRLEVLQGFEPEPELSPLOPPL--	265
Db		34	LALPVAMGQCNAPEWLPFARPTNLTFDEFEPDGTLYLNYESCRPGSGRPFSIICLKNSWT	93
QY		266	-----CGQTVC DN-----VELISQYNGYWPLRGEKVI	292
Db		94	GAKDRCRKRKSCRNPDPVNGMWHVIKIQEGSQIKYCTKGRYLLIGSSATCIIISGDTVI	153
QY		293	RQOVNINCD--DEGLNPVISEEQIRLQHEALNEAF---SRYNISWQLSVHVNHNSTLRHR	347
Db		154	WDNETPICDRIPCGLPPTIT-----NGDFISTNRNFHY-----GS	189
QY		348	VVLVNCEPSKIGND-----HCDEPECHPLTGYDGG---DCRLQGRCYSMWRDGL	394
Db		190	VVTYYRCNPGSGGRKFVLFELVGEPYSITYCTSNDDO--VGIMSGPAPOCIIPNKCTPPNVENGCI	247
QY		395	CHVECNMM-LNDFDDGDC-----C-----DPQAVADVTKTCFDDSDPKRAY	433
Db		248	LVS DNRSLFSLSINEVFRCQPVFVMKGPRRVKCQALINKMEPELPSCSRVCCQPPEDVLHA-	306

QY	434	MSVKELKEALQJNSTHF---	LNIFYASSVREDLAGAATW-----	PWDKDAVT-----	477		
Db	307	-----	ERTQRDKDNESPQGEVFYSC	EPGYDLRGAASMRCTPQGDWS	PAAPTCBVSXD 359		
QY	478	-----	HGGIVLSPAYYGMPEGHTDTMI	HEVGHVLG---LYHVFKG-----	VSERE 519		
Db	360	DFMGQLLNGRVLPVNLQLGAKVD	FVCEGDFQJLKSSASYSYCVLAGMESL	MNSSVPVCEQI 419			
QY	520	SCNDPCKETVPS-METG-----		DLCAD-----	540		
Db	420	FC--PSPPIVINGRHTGKPLEV	PPFGKAVNYTCDPHPDRGTSFDLIGEST	IRCTSDPOGN 477			
QY	541	---TAPTPKSEL--CREPE-----		PTSDTCGFTFRP--GAPFTYMS 575			
Db	478	GWSSPAPRCGILGHCOAPDHF	LFAKLTQTNASDEPIGTSLKYECPREYGR	PFS--- 533			
QY	576	YTDNCTDNF---TPNOARMHCYLD	LVYQQWTESRKPPIPIPMV-----		619		
Db	534	---ITCLDNLVWSSPDYCK-----		RKSGCTPPDPVNGMVHITDIQVSRIN 578			
QY	620	-----IGQTNKSITI-----	HW--LPPI-----	SGVYDRASGLGACTBDGTFR 658			
Db	579	YSCTTGRLIGHSSAECILSGNA	AHMSTKPIQRIPCGLPPTIANGDFI-----	STNR 632			
QY	659	QYVHTAS--SRVCDSSGYWTP	BEAVGPDRV-----DQCEPSLQAWS-	PEVHLYHMNM 709			
Db	633	ENFHYSVVTYRCNPGSGRKVF	FELVGEPSIYCTSNDDQ-----	VGIWSGPAQCIIPNK 687			
QY	710	TVPCPTEGCSLELLPQHPVQAD	TLTLWVTSFMESSQVLFDTIELLE--	NKESVHLGPL 766			
Db	688	CTRPNVE-----		NGILVSDNRSLSLNEVVEFRQC	PGFVMKGR 726		
QY	767	DTFCDIPLTIKLHVDKVSGKV	YTFDERIEIDALLTSQPHSPLCSG-	CRPVRYQVLRD 825			
Db	727	RVKCQ-----		ALNKEPELPSCSRVCQP-----	749		
QY	826	PPFASGLPVVVTSHRKFTDVE-	VTPGOMYQYVLAEBAGEL-GEAS--	PLNLHIGA 879			
Db	750	-----PPDVLHAERTQRDKN	FSPGQEVFYS--CEPGYDLRGAASMRCT	PQGDWSPA 800			
QY	880	PYCG-----	DGK---VSERLGEE-----	CDDGDLVSGDCS-----	907		
Db	801	PTCEVKSCTDDFMGQLLNGRV	LPVNLQLGAKVDFVCEGDFQJLKSSASYSYCV	LAGMESLMN 860			
QY	908	---KVCE-----		LE-----	EGFNCVGBPSL-C 925		
Db	861	SSVPVCEQIIFCPSPPV	IPNGRHTGKPLEVPPFGKAVNYTCDPHPDRGTS	FDLIGESTIRC 920			
QY	926	YM-YEGDGI-----		CE-----	PERKTSIVDCGIYT-----	PKGY-- 954	
Db	921	TSDPQNGVWSSPAPRCGILGH	COAPDHF	LFAKLTQTNASDFIGTSLKYECPREYGR 980			
QY	955	-----LDQWATRAYSSHED--	KKCC--PVSIVTGEPHSLI-----		CTSYPHD 992		
Db	981	PFSITCLD--NLVWSSPKDVCK	RKSKCTPPDPVNGMVHITDIQVSRINYSCTTG	H-R 1036			
QY	993	LPNHR-----		PLTGMFPC-----	VASENETQDDRSEQPEGSLKKEDEV 1030		
Db	1037	LIGHSSAECILSGNTAHMSTK	PIQRIPCGLPPTIANGDFISTNRENFHYSV-----		1090		
QY	1031	WLKVCFNRPGEARAI F-----		IFLTIDG-----	LVPGEHQOPTVT--LYL 1068		
Db	1091	VTYRCNLGSRGRKVFELVGE	PSIYCTSNDDQVGIWSGPAQCIIPNKCTP	PVNGVILV 1149			
QY	1069	TDVRGSNHSL-----			GTYGLSCO-----	HNPLIINTYTHQNVLFH 1103	
Db	1150	SD---NRSLFSLNEVVD	FRQC	PGFVMKGPRAVQCQALNKEPELPSCSRVCQ	PEPPEILH 1205		
QY	1104	--HTSVLANESSPRVGIS	AVALRTSSRIGLSAPNSNCISEDEGQNHQOS	CHRPCKQO- 1160			
Db	1206	GEHTPSHODNESP-----		GQEVFYSC--EPGYDLRGAASLH--	CTPQG 1244		
QY	1161	-----DSCPSLL--LDH	ADVNTCTSIGBGLMKCAITCQGFALQASSGOYIR	PM 1207			

Db 1245 DWSPEARCAVKSCDPFLGQLPHGRVLFPLNLQLG-AKVSFVCDGEGFRLKSSVSH----- 1299
Qy 1208 QKEILLTSSGHWQVVS-CLPVDGVPDPSLVANFSCSEG-TKFLKRCISICVP--- 1262
Db 1300 ---CVLVGMRSLMNNSVFVCEHI FCPNP-PALNGRHTGTSPSGDIPYKEISYTCDPHPD 1355
Qy 1263 ---PAKLOGLSPMLTCLIED---GLWSLPEVYCKL-----ECDAPPIILNANLLPHCLQ 1310
Db 1356 RGMTENLIGEST-IRCTSDPHGNVWSSPAPRCELSVRAGHCKTPEQFPFAPSPTIP--IN 1412
Qy 1311 D-NHDVGTICKYECKPGYVAESAEGKVRNKLKIQCLEGIWE--QGSCTPVCEPPPP 1367
Db 1413 DFEFPVGTSLNYECRPGYF-----GKMFISICLENLWSSVEDNCRKSCGPPPE 1462
Qy 1368 VEGM-----YECTNGFSL---DSQCVLNCQEREKLPILCTKEGLWTQE 1409
Db 1463 PFNGMVHINTDTQFSGSTVNYSCNEGRLIGSPSTCLVSGNNV-----TWDKK 1510
Qy 1410 FKLCENLQGECPPPPSLNS-----VEYKCEQYG----- 1439
Db 1511 APICEII--SCEPPTISNGDFYSNNRTSFHNGTVTYQCHTGPDEQLFELVGERSIYC 1568
Qy 1440 -----IGAVCSP-----LCVIIP-SDPVLMPENIT---ADTLEHMMEP---VKV 1476
Db 1569 TSKDDQGVWSSPPRCISTNKCTAPEVENAIRVGNRSFSLTEIIRFCQPGFVMVGS 1628
Qy 1477 QSIIVCTGRQWHPDVLVHCIOQCEP 1502
Db 1629 HTVQCQTNGRW--GPKLPHCSRVCP 1652

RESULT 12
5472939-2
; Patent No. 5472939
; APPLICANT: FEARON, DOUGLAS T.; KLICKSTEIN, LLOYD B.; WONG,
; WINNIE W.; CARSON, GERALD R.; CONCINO, MICHAEL F.; IP, STEPHEN
; H.; MAKRIDES, SAVVAS; MARSH, HENRY C. JR.
; TITLE OF INVENTION: METHOD OF TREATING COMPLEMENT
; MEDIATED DISORDERS
; NUMBER OF SEQUENCES: 30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/138,825
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 588,128
; FILING DATE: 24-SEP-1990
; APPLICATION NUMBER: 412,745
; FILING DATE: 26-SEP-1989
; APPLICATION NUMBER: 332,865
; FILING DATE: 03-APR-1989
; APPLICATION NUMBER: 176,532
; FILING DATE: 01-APR-1988
; SEQ ID NO:2:
; LENGTH: 2039
5472939-2

Query Match 3.3%; Score 287.5; DB 6; Length 2039;
Best Local Similarity 19.1%; Pred. No. 4.8e-15;
Matches 349; Conservative 178; Mismatches 548; Indels 751; Gaps 105;

Qy 221 LVLTASFEPVNT-EMVVF-----RDE-----KYRLEVLQGFEPPELISPLQPL-- 265
Db 34 LALPVAMGQCNAPWLPFARPTNLTDEFEFPIGTIYLYNCRPGYSGRPSIICLKNSVWT 93
Qy 266 -----CGQTVCDN-----VELISQYNGYWPPLRGEKVI 292
Db 94 GAKDRCRKSCRNPDPVNGMVHVIKIQFGSQIKYSCTKGYRLIGSSSATCIIISGDTVI 153
Qy 293 RYQVNNICD--DEGLNPVSEEQIRLQHEALNEAF---SRYNISWQLSVHQVHNSTLRHR 347
Db 154 WDNETPICDRIPCGLPPTIT-----NGDFISTNRENPHY-----GS 189

Qy 348 VVLVNCESKIGND-----HCDPECEHPLTYDGC---DCRLQRCYSWNRDGL 394
Db 190 VVTYRCNDGSGGRKVFELVGEPSIYCTSNDDQ--VGIWSGAPQCIIPNKCTPPNVENGI 247
Qy 395 CHVECNMN--LNDFDDGC-----C-----DPOVADVKTCTFPDPSPKRAY 433
Db 248 LVS DNRSLSFSLNEVEFEFCQPVFMKGRPVKQCALNKWEPELPPSCSRVCPDVLHA- 306
Qy 434 MSVKELKEALQLNSTHF--LNIYFASSVREDLAGAATW-----PWXDAVT----- 477
Db 307 -----ERTQDKDNFSPGQEVFYSCEPGYDLRGAASMRCTPQGDWSPAAPTCVKS CD 359
Qy 478 -----HLGGIVLSPAYYGMFGHTDTMIHEGVHLG--LYHVEKG-----VSERE 519
Db 360 DFMQOLNGRVLFPVNLQLGAKVDFVCEGFQLKSSASCYLAGMESLWNSVPVCEQI 419
Qy 520 SCNDPCKETVPS-METG-----DLCAD----- 540
Db 420 FC--PSPFVIIPNGRHTGKPLVEFPFGKAVNYTCDPHDRGTSFDLIGESTIRCTSDPQGN 477
Qy 541 ---TAPTPKSEL--CREPE-----PTSDTCGFTFRP--GAPFTNYS 575
Db 478 GWSSPAPRCGILGHCOAPDHLFAKLKTQTNASDFPIGTSLKYECPREYGRPFS--- 533
Qy 576 YTDNCTDNF---TPNQVARMHCYLDLVYQWTESRKPTPIPIPMV----- 619
Db 534 ---ITCIDNLWSSPKDVCK-----RKSKCTPPDPVNGMVHITDIQVGSRLN 578
Qy 620 -----IGQTNKSLTI-----HW--LPI-----SGVYDRASGLGACTEDGTFR 658
Db 579 YSCTGHRHLIGHSSABCILSGNAHMTKRPICQRI PCGLPPTIANGDFI-----STNR 632
Qy 659 QYVHTAS--SRVCDSSGYWTPREAVGPDPV-----DQCEBSLQAWS-PEVHLYHNM 709
Db 633 ENFHYGSVVTYRCNPGSGGRKVFELVGEPSIYCTSNDDQ-----VGIWSGAPQCIIPNK 687
Qy 710 TVPCPTEGCSLELLFQHPVQADTLTLWTSFFMESSQVLFDTIELLE---NKESVHLGPL 766
Db 688 CTPPNVE-----NGILVSDNRSLSFSLNEVEFEFCQPGFVMKGPR 726
Qy 767 DTFCDIPLTIKLHVDGKVGKVTYFDERIEIDALLTSQPSPLCSG-CRPVRQVLRD 825
Db 727 RVKQ-----ALNKWEPELPPSCSRVCP----- 749
Qy 826 PPFASGLPVVTHSHRKFTDVE-VTPGQMYQYVLAEAGEL-GEAS---PPLNHIHGA 879
Db 750 -----PBDVLAERTQDKDNFSPGQEVFYS--CEPGYDLRGAASMRCTPQGDWSPA 800
Qy 880 PYCG-----DGK---VSERLGEE---CDDGLVSGDGS----- 907
Db 801 PTCEVKSDDFMQOLNGRVLFPVNLQLGAKVDFVCEGFQLKSSASCYLAGMESLWN 860
Qy 908 ---KVCE-----LE-----EGFNCVGEPSL-C 925
Db 861 SSVPVCEQIFCPSPVPIPNGRHTGKPLVEFPFGKAVNYTCDPHDRGTSFDLIGESTIRC 920
Qy 926 YM-YEGDGI-----CE-----PFEKTSIVDCGIYT-----PKG Y-- 954
Db 921 TSDPQNGVWSSPAPRCGILGHCOAPDHLFAKLKTQTNASDFPIGTSLKYECPREYGR 980
Qy 955 -----LDQWATRAYSSHED--KKC--PVS LVTGEPHSLI-----CTSYHPD 992
Db 981 PFSITCD--NLWSSPKDVCKRKSCKTPPDPVNGMVHITDIQVGSRLNYSCTTGH-R 1036
Qy 993 LPNHR-----PLTGWFP C-----VASENETQDDRSEQPEGSJLKEDEV 1030
Db 1037 LIGHSSABCILSGNTAHWSTKRPICQRI PCGLPPTIANGDFISTNRENPHYGSV----- 1090
Qy 1031 WLKVCFNRPGEARAIF-----IFLTTDG-----LVPEGHQOPTVT--LYL 1068
Db 1091 -VTYRCNLGSRKRVFELVGEPSIYCTSNDDQVGIWSGAPQCIIPNKCTPPNVENGILV 1149
Qy 1069 TDVRGSNHSL-----GTYGLSCQ-----HNPLIINVTTHQNVLFH 1103

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Db 1150 SD---NRSLFSLNEVDVDFRCQPGFVMKGPRRVKCOALNKWEPELPSCSRVCQPPPEILH 1205
Qy 1104 --HTTSVLNFSPPRVGISAVALRTSSRIGLSAPSNCSISEGQNHOGQSCIRPCGKO- 1160
Db 1206 GEHTPSHQDNFSP-----GQEVFYSK---EPGYDLRGAASLH--CTPQG 1244
Qy 1161 -----DSCPSSL--LDHADVNCTSIGPGLMKCAITCQGFALQASSGQYIRPM 1207
Db 1245 DWSPEARCAVKSQDDFLGQLPHGRVLFPLNLQLG-AKVSFVCDGFRKSSVSH---- 1299
Qy 1208 QKEILLTSSGHWQNVS-CLPVDGVPDPSLVNANFSCSEG-TKFLKRCSTSCVP--- 1262
Db 1300 ---CVLVGMRSLMNNNSVPVCEHIFCPNP-PALNGRHTGTPSGDIPIYGKEISYTCDPHPD 1355
Qy 1263 ---PAKQGLSPWLTCLED---GLWSLPEVYCKL---ECDAPPIILNALLPHCLQ 1310
Db 1356 RGMTFNLIGEST-IRCTSDPHGNGVWSSPAPRCELSVRAGHCKTPEQFPFASPTIP--IN 1412
Qy 1311 D-NHDVGTICKYECKPGYVAESAEGKVRNKLKIOCLEGGIWE--QGSCTPVVCEPPPP 1367
Db 1413 DFEFPVGTSLNYECRGYF-----GKMFPSISCIENLVWSSVEDNCRKSCGPPE 1462
Qy 1368 VFEGM-----YECTNGFSL---DSQCVLNCNQEREKLPILCTKEGLWTQE 1409
Db 1463 PFNGMVHINTDQFGSTVNVYSCNEGFRLLIGSPSTCLVSGNNV-----TWDXK 1510
Qy 1410 FKLCENLQGECPPPSELNS-----VEYKCEQGYG----- 1439
Db 1511 APICEIT--SCEPPPTISNGDFYSNNRTSFHNGTVTYQCHTGPDEQLFELVGERSTYC 1568
Qy 1440 -----IGAVCSP-----LCVIPR-SDPVLMPENIT---ADTLEHMEP---VKV 1476
Db 1569 TSKDDQGVWSSPPRCISTNKCTAPEVENAIRVGNRSFSLTEIRFCQPGFVMVGS 1628
Qy 1477 QSIVCTGRQWHPDVLVHCIOQCEP 1502
Db 1629 HTVQCOTNGRW--GPKLPHCSRVQOP 1652

RESULT 13
5256642-2
; Patent No. 5256642
; APPLICANT: FEARON, DOUGLAS T.; KLICKSTEIN, LLOYD B.; WONG,
; WINNIE W.; CARSON, GERALD R.; CONCINO, MICHAEL F.; IP, STEPHEN
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; FILING DATE: 01-APR-1988
; SEQ ID NO: 2:
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5256642-2

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Qy 221 LVLTAPEPVNT-EMVPE-----RDE-----KYPRLEVLQGFEPPEILSPLOPPL-- 265
Db 34 LALPVAMGQCNAPEWLPFARPTNLTDEFEFFPIGTLYLNYECRPGYSGRPFSTICLKNSVWT 93
Qy 266 -----CGQTVCDN-----VELISQYNGYWPILRGEKVI 292
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Db 94 GAKDRCRRKSCSNPPDPVNGMVHVIKIGQPSQIKYSTGKYRLIGSSSATCIISGDTVI 153
Qy 293 RYQVNICD--DEGLNPIVSEEQIRLQHEALNEAF--SRYNISWQLSVHQVHNSTLRHR 347
Db 154 WDNETPICDRIPCGLPPTIT-----NGDFISTNRENFHY-----GS 189
Qy 348 VLVNCEPSKIGND-----HCDPEGHPLTGYDG--DCRLQGRCVSWNRDGL 394
Db 190 VVTYRCNPGSGGRKVFELVGEPSIYCTSNDDQ--VGIMSGAPQCIIPNKTPEPNVENGI 247
Qy 395 CHVECNM--LNDPDDGC-----C-----DQVADVKTGFPDPSPKRAY 433
Db 248 LVSQNRSLFSLNEVVEFRQCPVFVMKGPRRVKCOALNKWEPELPSCSRVCQPPDVLHA- 306
Qy 434 MSVKELKEALQLNSTHF--LNTYFASSVREDLAGAATW-----PWKDVAVT----- 477
Db 307 -----ERTQDKDNFSPGQEVFYSCEPGYDLRGAASMRCTPOGDWSPAAFTCEVKSQD 359
Qy 478 -----HLGGLVSPAYYGMGHTDTMHEVGVLG--LYHVFKG-----VSERE 519
Db 360 DEMQNLNGRVLFEPVNLQGAQKVDVCEGFPQLKSSASVYCVLAGMESLWSSVPVCEQI 419
Qy 520 SCNDPCKETVPS-METG-----DLCAD----- 540
Db 420 FC--PSPPVIPNGRHTGKPLEVFPFGKAVNYTCDBPHDRGTSFDLIGESTIRCTSDPOGN 477
Qy 541 ---TAPTPKSEL---CREPE-----PTSDTCGTRFP---GAPFTNYS 575
Db 478 GVMSSPAPRCGLGHQCPADHFLFAKLKTQTNASDFPIGTSLKYECPREYGRPFS---- 533
Qy 576 YTDNCTDNF---TPNQVARMHCYLDLYQGWTESRKPTPIPIPPMV----- 619
Db 534 ---ITCLDLNVWSSPKDVCK-----RKSKTPPDPVNGMVHVTIDIQVGSRLN 578
Qy 620 -----IGQTNKSLTI---HW--LPPI---SGVYDRASGLCGACTEDGTFR 658
Db 579 YSCTTGHRILGHSSAECILSGMAAHMSTKPPICQIRPCGLPPTIANGDFI-----STNR 632
Qy 659 QYVHTAS--SRRVCDSSGYWTPPEAVGPPDV-----DQCEPSLQAWS--PEVHLYHMM 709
Db 633 ENFHYSVYTYRCNPNPGSGRKVFELVGEPSIYCTSNDDQ---VGIMSGAPQCIIPNK 687
Qy 710 TVPCPTEGCSLELLFQHPVQADTLTLMWTSFMESSQVLFDTLEILLE---NKESVHLGPL 766
Db 688 CTPEPVE-----NGILVSDNRSLFSLNEVEFRQCPGFVMKGP 726
Qy 767 DTFCDIPLTIKLVHDQKSVGVKVTYFDERIEIDALLTSQPHSPLCG--CRPVRYQVLRD 825
Db 727 RVKQ-----ALNKWEPELPSCSRVCOP----- 749
Qy 826 PPFASGLPVVYTHSRKFTDVE-VTPGQMYQYVLAEGGEL-GEAS-----PPLNHIHGA 879
Db 750 -----PPDVLHAERTQDKDNFSPGQEVFYS--CEPGYDLRGAASMRCTPOGDWSPAA 800
Qy 880 PYCG-----DGK---VSERLGE--CDDGDLVSGDGS----- 907
Db 801 PTCEVKSQDDFMQOLLNGRVLFVNLQGAQKVDVCEGFPQLKSSASVYCVLAGMESLWN 860
Qy 908 ---KVCE-----LE-----EGFNCVGEPSL-C 925
Db 861 SSVPVCEQIFCPSPPVIPNGRHTGKPLEVFPFGKAVNYTCDBPHDRGTSFDLIGESTIRC 920
Qy 926 YM-YEGDGI-----CE-----PFEKTSIVDCGIYT-----PKGY-- 954
Db 921 TSDPQNGVWSSPAPRCGILGHQCPADHFLFAKLKTQTNASDFPIGTSLKYECPREYGR 980
Qy 955 -----LDQWATRAYSHED--KKKC--PVS LVTGEPSHLI-----CTSYHPD 992
Db 981 PFSITCLD---NLWSSPKDVCKRKSKCTPPDPVNGMVHVTIDIQVSRINYSCTTGH-R 1036
Qy 993 LPNHR-----PLTGWFPK-----VASENETQDDRSGQPEGSLKKEDEV 1030
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Db 1037 LIGHSSAECILSGNTAHWSTKPPICQIRPCGHPPTIANGDFISTNRENFHYGSV----- 1090
Qy 1031 WLKVCFNRPGEARAF-----IFLTTDG-----LVPGEHQPTVT--LYL 1068
Db 1091 -VTYRCNLGSRGRKFELVGEPSIYCTSNDDQVIGWGPAPQCIIPNKCTPPENVENGILV 1149
Qy 1069 TDVRGSNHSL-----GTGSLSCQ-----HNPLINVTYHQNVLFH 1103
Db 1150 SD-----NRSLSFLNEVVDRCQGFVWKGRPRYKQALNKWEPELPSGSRVCQPPPEILH 1205
Qy 1104 --HTSVLNFSSPRVGISAVALTSSRIGLSAPNSCISEDEGQNHQGSCHIRPCGKQ- 1160
Db 1206 GEHTPSHQDNFSP-----GQEVFYSC--EPGYDLRGAASLH--CTPQG 1244
Qy 1161 -----DSCPSLL--LDHADVNCTSIGPGLMKCAITCQRFALQASSGQYIRPM 1207
Db 1245 DWSPEARCAVAKSCDDFLGQLPHGRVLPFLNLQIG-AKVSFVCDEGFRLLKSSSVSH----- 1299
Qy 1208 QKEILLTSSGHWQNVS-CLPVDGCVPPPSLVNYANFSCSEG-TKFLKRCISCVP--- 1262
Db 1300 ---CVLVGMRSLMNNNSVPVCEHIFCPNP-PALINGRHTGTPSGDIPYGEISYTCDPHPD 1355
Qy 1263 ---PAKQGLSPMLTCLD---GLWSLPEVYCKL-----ECDAPRIILNANLLPHCLQ 1310
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Qy 1311 D-NHDVGTICKYECKBPYYVAESAEGKVRNKLKIQCLEGIWE--QSGCIPVCEPPPP 1367
Db 1413 DFEFPVGTSLNVECRPGYF-----GKMFISISCLENLVMSVVEDNCRKSCGPPE 1462
Qy 1368 VPEGM-----YECTNGFSL-----DSQCVLNCNQERKLPILCTKEGLWTQE 1409
Db 1463 PFNGMVHINTDQFGSTVNYSCNEGFRLLIGSPSTCLVSGNNV-----TWDXK 1510
Qy 1410 FKLCENLQGECPPPPELSN-----VEYKCEQGYG----- 1439
Db 1511 APICEII--SCEPPPTISNGDFYSNNRTSFHNGTVVTYQCHTGPDDGQLFELVGERSIYC 1568
Qy 1440 -----IGAVCSP-----LCVIPR-SDPYMLPENIT---ADTLEHMEP---VKV 1476
Db 1569 TSKDDQVGVWSSPPRCISTNKCTAPEVENAIRVGNRSFSLTEIIRRCQPGFVMVGS 1628
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Db 1629 HTVQCQTNGRW--GPKLPHCSRVCQ 1652

RESULT 14
5472939-2
; Patent No. 5472939
; APPLICANT: FEARON, DOUGLAS T.; KLICKSTEIN, LLOYD B.; WONG,
; WINNIE W.; CARSON, GERALD R.; CONCINO, MICHAEL F.; IP, STEPHEN
; H.; MAKRIDES, SAVVAS; MARSH, HENRY C. JR.
; TITLE OF INVENTION: METHOD OF TREATING COMPLEMENT
; MEDIATED DISORDERS
; NUMBER OF SEQUENCES: 30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/138,825
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 588,128
; FILING DATE: 24-SEP-1990
; APPLICATION NUMBER: 412,745
; FILING DATE: 26-SEP-1989
; APPLICATION NUMBER: 332,865
; FILING DATE: 03-APR-1989
; APPLICATION NUMBER: 176,532
; FILING DATE: 01-APR-1988
; SEQ ID NO:2:
; LENGTH: 2039
5472939-2
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Query Match 3.3%; Score 287.5; DB 6; Length 2039;

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Best Local Similarity 19.1%; Pred. No. 4.8e-15;
Matches 349; Conservative 178; Mismatches 548; Indels 751; Gaps 105;

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Qy 266 ----CGQTVCDN-----VELISQYNGYWPLRGEKVI 292
Db 94 GAKDRCRKRKSCRNPPDPVNGMVHVIKIGIQFGSQIKYSCTKGYRLIGSSSATCIISGDTVI 153
Qy 293 RYQVVICD--DEGLNPVISEQIRLQHEALNEAF--SRYNISWQLSVHQVHNSTLRHR 347
Db 154 WDNETPICDRIPCGLPPTIT-----NGDFISTNRENFHY-----GS 189
Qy 348 VLVNCEBSKIGND-----HCDPECEHPLTGYDGC--DCRLQGRCYSWNRDGL 394
Db 190 VVTYRCNPGSGRKFVFLVGEPSIYCTSNDDQ--VGIWSGPAPQCIIPNKCTPPNVENG 247
Qy 395 CHEVECNM--LNDFDDGDC-----C-----DPQVADVRCCTCFDPSPKRAY 433
Db 248 LVSDNRSLSFLNEVEFERCQPVFVWKGRPRVKQALNKWEPELPSGSRVCQPPDVLHA- 306
Qy 434 MSVKELKEALQLNSTHF--LNTYFASSVREDLAGATW-----PMDKAVT----- 477
Db 307 -----ERTQDKDNFSFGQEVFYSCPEGYDLRGAASMRCTPQGDWSPAAPTCEVKSCD 359
Qy 478 ----HIGGIVLSPAYYGMPGHTDTHIEVGHVLG--LYHVFKG-----VSERE 519
Db 360 DFMGQLNGRVLFPVNLQLGAKYDFVCDGQFKGSSASVYLAGMESLMNSVVPVCEQI 419
Qy 520 SCNDPCKETVPS-METG-----DLCAD----- 540
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Qy 576 YTDDNCTDNF--TPNOVARMCYLDLVYQOWTESRKPTPIPMV----- 619
Db 534 ---ITCLDNLVWSSPKDVCK-----RKSKCTPPDPVNGMVHITDIQVGSRLN 578
Qy 620 -----IGQTNKSLTI-----HW--LPI-----SGVYVDRASGSLGACTEDGTFR 658
Db 579 YSCCTGHRLLIGHSSAECILSGNAHAWSTKPPICQIRPCGHPPTIANGDFI-----STNR 632
Qy 659 QYVHTAS--SRVCDSSGYWTPPEAVGPDPV-----DQCEPSLQAWS-PEVHLYHNM 709
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Qy 710 TVPCPTEGCSLELLFQHPVQADTLTLWVTSFFMESSQVLFDEILLE--NKESVHLGPL 766
Db 688 CTPPNVE-----NGILVSDNRSLSFLNEVEFERCQPGFVMKGR 726
Qy 767 DTFCDIPDLTIKLHVDGKVGKVTYFDERIEIDAALLTSQHSPLCSG-CRPVRYQVLRD 825
Db 727 RVKCG-----ALNKWEPELPSGSRVCQ----- 749
Qy 826 PPFASGLPVVYVTHSHRKFTDVE-VTPGQMYQYVLAAAGEL-GEAS--PPLNIHGA 879
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Qy 908 ---KYCE-----LE-----EGFNCVGEPSL-C 925
Db 861 SSVPVCEQIFCPSPPVPIPNGRHTGKPLEVFPFGKAVNYTCDPHDRGTSFDLIGESTIRC 920
Qy 926 YM-YEGDGI-----CE-----PFRKTSIVDCGIYT-----PKGY-- 954
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Qy 1031 WLKVCFNRPGEARAF-----IFLTIDG-----LVPGEHQPTVT--LYL 1068
Db 1091 -VTYRCNLGSRGRKVFELVGEPSIYCTSNDDQVGIWSGPAPQCIIPNKCTPPNVENGILV 1149
Qy 1069 TDVRGSNHSI-----GTVGLSCQ-----HNPLIINTHQNVLPH 1103
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Qy 1368 VPEGM-----YECTNGFSL---DSQVLNCOERREKLPICTKEGLWTQE 1409
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; Sequence 52, Application US/09612314A
; Patent No. 6713606
; GENERAL INFORMATION:
; APPLICANT: SMITH, RICHARD ANTHONY GODWIN
; APPLICANT: DODD, IAN
; APPLICANT: MOSSAKOWSKA, DANUTA EWA IRENA
; TITLE OF INVENTION: CONUGATES OF SOLUBLE PEPTIDIC COMPOUNDS WITH
; FILE REFERENCE: 37945-0004
; CURRENT APPLICATION NUMBER: US/09/612,314A
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 09/214,913
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: PCT/EP97/03715
; PRIOR FILING DATE: 1997-07-08
; PRIOR APPLICATION NUMBER: GB 96 148 71.3

; PRIOR FILING DATE: 1996-07-15
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 52
; LENGTH: 1947
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: CR1
US-09-612-314A-52

Query Match 3.3%; Score 287; DB 4; Length 1947;
Best Local Similarity 19.1%; Pred. No. 5e-15;
Matches 346; Conservative 176; Mismatches 541; Indels 750; Gaps 104;

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Db 66 PDPVNGMVHVIKIQFGS QIKYSCTKGYRLIGSSATCIISGDTYIWDNETPICDRIPC 125
Qy 304 GLNPVSEQIRLQHEALNEAF--SRYNISQLSVHQVHNSTLRHRVVLVNCESKIGN 360
Db 126 GLPPTIT-----NGDFISTNRENFHY-----GSVVTYRCNPGSGGR 161
Qy 361 D-----HCDPECEHPLTYGDG---DCRLQRCYSWNRDGLCHVECNMM--LND 405
Db 162 KVFELVGEPSIYCTSNDDQ--VGIMSGPAPQCIIPNKCTPPNVENGILVSDNRSLSFLNE 219
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QY	912	-----LE-	-----	EGENCVEP	PSL-CYM-	YEGDI----		933				
Db	833	PPVIPNGR	HRTGKPLE	VPBGKAVNY	TCDPHPDRG	TSEDLIGEST	IRCTSDPQ	NGWSSP 892				
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QY	962	AYSHED--	KKCC--	PVSLVTGE	PHSLI-----	CTSYHPDL	PNR-----	997				
Db	950	WMSSPKD	VCKRKSKCT	PPDDPVNG	MVHVITD	IQVGSRI	NYSC	TGTH--RLIGHSSA	ECLISG 1008			
QY	998	-----PL	TGWFPCC-----	VASENETO	DDRSEQ	PBSGLKKE	DEWMLK	VCFNRP	GEAR 1043			
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QY	1044	AIF-----	IFLTDTG-----	LVPEHQ	QPTVT--	LYLTDV	RGSN	SL--	1078			
Db	1062	KVEFLVGE	PSIYCTSD	NDQYGI	WSGAPQCI	IIPNKCTP	ENVENG	ILVSD---NRS	LFSL 1117			
QY	1079	-----GT	YGLSCQ-----	HNPLI	INTHQN	VLFH--	HTTSV	LNFS	1114			
Db	1118	NEVEFERC	QPGFVMK	PPRRVYK	CQALNK	MEBELP	SCSR	QCPPEIL	HGEHTPSH	ODNFS 1177		
QY	1115	PRVISA	VALRTSS	RIGLSAP	NSNCISE	DEGQNH	QSC	CIHR	PCGKQ-----	DS 1162		
Db	1178	-----GQ	EVFYSC--	EPGYDLR	GAASLH--	CTPQGD	WSPA	PRCAVKS		1216		
QY	1163	CPSLL--	LDHADV	NCTSIG	PGLMKCAIT	QCRGFAL	QASSGQ	YIRPM	KEILLT	CSGHW 1220		
Db	1217	CDDFLG	QLPHGR	VLFP	LNQLG-AK	VSFV	CDEG	FRLK	SSVSH-----	CVLVGR	SLW 1268	
QY	1221	DQNVS-CL	PVDCG	VPDPSL	VNYANF	SCSEG-TK	FLKCS	ISCVP-----	PAK	QGISPW 1272		
Db	1269	NNSVPV	CEHIFC	PNP-P	ALINGR	HGTG	TPSGDI	PYGKEI	SYTCDP	HPDRGMTF	NLIGEST- 1326	
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Db	1327	IRCTSD	PHGNGW	SSPAPR	CELS	VRAGH	CKTPEQ	FPFAS	PTIP--IND	FEFPVGT	SLNYE 1384	
QY	1323	CKPGYV	AESAEG	KVRNKL	KIQCLE	GGIWE--Q	SCIPV	YCEP	PPVFEGM-----		1372	
Db	1385	CRPGYF-	-----G	KMFIS	ISCL	ENLW	MSVEDN	CKRKS	CGPP	PEPFGM	VHINTDQ 1434	
QY	1373	-----Y	ECTNGFSL---	DSQV	LN	CNOER	EKLPLICT	KEGLMT	QEFKL	CENLQ	GECP 1422	
Db	1435	FGSTV	NYS	CNEG	FRLIG	SP	TCLV	SGNNV-----	TW	DKAPICE	IT--SCEP 1480	
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Db	1481	PPTIS	NGDFYS	NNRTS	FNHGT	VTVYQ	CHTGP	DGEQL	FEI	VGERSI	YCTSKDDQ	VWSSP 1540
QY	1447	-----L	CVIP-SD	PVLPENIT---	ADTLE	HMBP---	VKQ	SIVCT	GRQWHP		1489	
Db	1541	PPRCIST	NKCTA	PEVENA	IRVPG	NRSSF	SLTEI	IRFR	QDGF	VWVGS	HTVQCQ	TNRW-- 1598
QY	1490	DPVLVH	CIO	SCEP	1502							
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Job time : 47.5172 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 25, 2005, 22:20:01 ; Search time 110.721 Seconds
(without alignments)
5529.033 Million cell updates/sec

Title: US-09-983-025b-2_COPY_234_1791

Perfect score: 8612

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Scoring table:

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Gapop 10.0 , Gapext 0.5

Searched: 1767149 seqs, 392926209 residues

Total number of hits satisfying chosen parameters: 1767149

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA: *
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	8592	99.8	1791	9	US-09-827-998-3
3	8592	99.8	1791	15	US-10-675-685-3
4	8263	95.9	1770	9	US-09-827-998-10
5	8263	95.9	1770	15	US-10-675-685-10
6	6126	71.1	1385	9	US-09-827-998-16
7	6126	71.1	1385	15	US-10-675-685-16
8	3916.5	45.5	1627	10	US-09-983-025-25
9	3916.5	45.5	1627	15	US-10-295-027-663
10	3916.5	45.5	1627	17	US-10-783-311-1
11	3916.5	45.5	1627	17	US-10-741-600-1406

12	3916.5	45.5	1627	17	US-10-991-321-32	Sequence 32, Appl1
13	3916.5	45.5	1627	18	US-10-887-229A-8	Sequence 8, Appl1
14	3914.5	45.5	1547	17	US-10-783-311-2	Sequence 2, Appl1
15	3602	41.8	1420	17	US-10-741-600-1403	Sequence 1403, Ap
16	3602	41.8	1420	17	US-10-741-600-1405	Sequence 1405, Ap
17	3044	35.3	1232	17	US-10-741-600-1404	Sequence 1404, Ap
18	2219	25.8	858	15	US-10-334-143-85	Sequence 85, Appl
19	1893	22.0	704	17	US-10-741-600-1402	Sequence 1402, Ap
20	1086	12.6	192	9	US-09-864-761-34265	Sequence 34265, A
21	383	4.4	70	9	US-09-864-761-34264	Sequence 34264, A
22	360.5	4.2	165	9	US-09-864-761-42873	Sequence 42873, A
23	346.5	4.0	3567	15	US-10-028-248A-47	Sequence 47, Appl
24	346.5	4.0	3567	15	US-10-107-782-47	Sequence 47, Appl
25	336.5	3.9	3571	16	US-10-603-283-2	Sequence 2, Appl1
26	336.5	3.9	3594	9	US-09-911-842-4	Sequence 4, Appl1
27	336.5	3.9	3594	13	US-10-150-821-4	Sequence 4, Appl1
28	334.5	3.9	3557	15	US-10-295-027-430	Sequence 430, App
29	334.5	3.9	3557	15	US-10-295-027-1297	Sequence 1297, Ap
30	332.5	3.9	3568	15	US-10-028-248A-8	Sequence 8, Appl1
31	332.5	3.9	3568	15	US-10-107-782-8	Sequence 8, Appl1
32	332.5	3.9	3570	15	US-10-028-248A-6	Sequence 6, Appl1
33	332.5	3.9	3570	15	US-10-107-782-6	Sequence 6, Appl1
34	330.5	3.8	3571	9	US-09-911-842-2	Sequence 2, Appl1
35	330.5	3.8	3571	13	US-10-150-821-2	Sequence 2, Appl1
36	324	3.8	63	9	US-09-864-761-34262	Sequence 34262, A
37	287.5	3.3	2039	17	US-10-741-600-1241	Sequence 1241, Ap
38	287.5	3.3	2044	15	US-10-276-774-2152	Sequence 2152, Ap
39	287	3.3	1947	16	US-10-742-887-52	Sequence 52, Appl
40	284	3.3	2489	9	US-09-911-842-5	Sequence 5, Appl1
41	284	3.3	2489	13	US-10-150-821-5	Sequence 5, Appl1
42	284	3.3	2489	17	US-10-741-600-1242	Sequence 1242, Ap
43	284	3.3	3564	15	US-10-016-248-45	Sequence 45, Appl
44	283	3.3	1139	9	US-09-764-893-102	Sequence 102, App
45	283	3.3	1139	9	US-09-764-881-99	Sequence 99, Appl

ALIGNMENTS

RESULT 1
US-09-983-025-2
; Sequence 2, Application US/09983025
; Publication No. US20030124529A1
; GENERAL INFORMATION:
; APPLICANT: OXVIG, Claus
; TITLE OF INVENTION: PREGNANCY-ASSOCIATED PLASMA PROTEIN-A2 (PAPP-A2)
; FILE REFERENCE: OXVIG-1A
; CURRENT APPLICATION NUMBER: US/09/983, 025
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/241,840
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: DK PA 2000 01571
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 1791
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(66)
; OTHER INFORMATION: prepro part of PAPP-A2
; NAME/KEY: misc_feature
; LOCATION: (67)..(699)
; OTHER INFORMATION: pro part of PAPP-A2
US-09-983-025-2

Query Match 100.0%; Score 8612; DB 10; Length 1791;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1558; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	SPPEESNONGGEGSYREAEFTNSQVGPILLYFSGRRERLLLRPEVLAIEIPREAFTEAWV	60
Db	234	SPPEESNONGGEGSYREAEFTNSQVGPILLYFSGRRERLLLRPEVLAIEIPREAFTEAWV	293
QY	61	KPEGGONNPALIAGVFDNCSHTVSDKGWALGIRSGKDKGRDAREFFSLCTDRVKATIL	120
Db	294	KPEGGONNPALIAGVFDNCSHTVSDKGWALGIRSGKDKGRDAREFFSLCTDRVKATIL	353
QY	121	ISHSRYPQGTWTHVAATYDGRHMAIYDGTQVASSLDQSGPLNSPFMACSRSLLGDS	180
Db	354	ISHSRYPQGTWTHVAATYDGRHMAIYDGTQVASSLDQSGPLNSPFMACSRSLLGDS	413
QY	181	EDGHYERGHGLCTLVFWSTALPQSHFOHSSQHSSEBEATDLVLTASFEPVNTIEWPFRDE	240
Db	414	EDGHYERGHGLCTLVFWSTALPQSHFOHSSQHSSEBEATDLVLTASFEPVNTIEWPFRDE	473
QY	241	KYPRLEVLQGFEPPEILSPLOPPCGQTVCDNVELISQYNGYWLGEKVIRYQVNNIC	300
Db	474	KYPRLEVLQGFEPPEILSPLOPPCGQTVCDNVELISQYNGYWLGEKVIRYQVNNIC	533
QY	301	DDEGINPIVSEEQIRLOHEALNEAFSRYNISWQLSVHQVHNSTLHRVVLVNCPEPSKIGN	360
Db	534	DDEGINPIVSEEQIRLOHEALNEAFSRYNISWQLSVHQVHNSTLHRVVLVNCPEPSKIGN	593
QY	361	DHCDPECEHPLTGYDGDGDCRLQGRCTYSWNRRDGLCHVECNMMINDFDDGCCDPQVADVR	420
Db	594	DHCDPECEHPLTGYDGDGDCRLQGRCTYSWNRRDGLCHVECNMMINDFDDGCCDPQVADVR	653
QY	421	KTCFDPDSPKRAYMSVKELKEALQUNSTHFLNITYFASSVREDLAGATWPMWMDKAVTHLG	480
Db	654	KTCFDPDSPKRAYMSVKELKEALQUNSTHFLNITYFASSVREDLAGATWPMWMDKAVTHLG	713
QY	481	GIYLSPAYYGMPGHTDTMIHEVGHVGLYHVEKGVSERESCNDPCKETVPSMETGDLCAD	540
Db	714	GIYLSPAYYGMPGHTDTMIHEVGHVGLYHVEKGVSERESCNDPCKETVPSMETGDLCAD	773
QY	541	TAPTPKSELCREPEPTSDTCGFTRPPGAPFTNYMSYTDNCTNFTPNQVARMHCYLDLV	600
Db	774	TAPTPKSELCREPEPTSDTCGFTRPPGAPFTNYMSYTDNCTNFTPNQVARMHCYLDLV	833
QY	601	YOQWTESRKPTPIPIPMVIGQTNKSLTIHMLPPISGVVYDRASGLCGACTEDGTFROY	660
Db	834	YOQWTESRKPTPIPIPMVIGQTNKSLTIHMLPPISGVVYDRASGLCGACTEDGTFROY	893
QY	661	VHTASSRRVCDSSGYWTPPEEAVGPBDVDQPCEPSLQAWSPEVHLYHMMNTVPCPTGEGSL	720
Db	894	VHTASSRRVCDSSGYWTPPEEAVGPBDVDQPCEPSLQAWSPEVHLYHMMNTVPCPTGEGSL	953
QY	721	ELLFQHPVQADTLTLMWTSFEMESSQVLFDETEILLENKESVHLGPLDTFCDIPLTIKLHV	780
Db	954	ELLFQHPVQADTLTLMWTSFEMESSQVLFDETEILLENKESVHLGPLDTFCDIPLTIKLHV	1013
QY	781	DGKVSQVKVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVVTSH	840
Db	1014	DGKVSQVKVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVVTSH	1073
QY	841	RKFTDVEVTPGQMYQYQVLAEAGGELGEASPLLNHIGAPYCGDGKYSERLGEBCDDGDL	900
Db	1074	RKFTDVEVTPGQMYQYQVLAEAGGELGEASPLLNHIGAPYCGDGKYSERLGEBCDDGDL	1133
QY	901	VSGDGCCKVCELEBGFNCVGEPSLCYMEEGDGICEPFERKTSIYDCGIYTPKGYLDQWAT	960
Db	1134	VSGDGCCKVCELEBGFNCVGEPSLCYMEEGDGICEPFERKTSIYDCGIYTPKGYLDQWAT	1193
QY	961	RAYSSHEDKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWFCVASENETQDDRSEOP	1020
Db	1194	RAYSSHEDKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWFCVASENETQDDRSEOP	1253
QY	1021	EGSLKKEDEVWLKVCFNRPGEARAFIFLITTDGLVPGEHQQPTVTLYLTDVGRGSHSLGT	1080
Db	1254	EGSLKKEDEVWLKVCFNRPGEARAFIFLITTDGLVPGEHQQPTVTLYLTDVGRGSHSLGT	1313
QY	1081	YGLSCQHNPLIINTVTHQNVLFHHTTSVLNFSPPRVGISAVALRTSSRIGLSAPSNICIS	1140

Dd	1314	XGLSCQHNP LIINVFHQNVLFEHTT SVLNFSSRIVGISAVALRTSSRI GLSAPNCIS	1373
Qy	1141	EDEGQNHOGSC IHRPCGKODSCPSLLLDHADVNVCTS IGPLMKCAITCQRGFALQASS	1200
Dd	1374	EDEGQNHOGSC IHRPCGKODSCPSLLLDHADVNVCTS IGPLMKCAITCQRGFALQASS	1433
Qy	1201	GQYIRPMOKEIL LTCSSGHWDQNV SCLPVD CGVPDPSLVNYANF SCSEGT KFLKRC SIS C	1260
Dd	1434	GQYIRPMOKEIL LTCSSGHWDQNV SCLPVD CGVPDPSLVNYANF SCSEGT KFLKRC SIS C	1493
Qy	1261	VPPAKLQG LSPWLTCLE DGLMSLP EVYCKLECDAPI ILNANLLPH CLQDNHDVGTICK	1320
Dd	1494	VPPAKLQG LSPWLTCLE DGLMSLP EVYCKLECDAPI ILNANLLPH CLQDNHDVGTICK	1553
Qy	1321	YECKPGYYVAESA EGKYRNKLKI QCLBEGGIWEQSC IPVCCEPPP VFEGMYECTNGFS	1380
Dd	1554	YECKPGYYVAESA EGKYRNKLKI QCLBEGGIWEQSC IPVCCEPPP VFEGMYECTNGFS	1613
Qy	1381	LDSQCVLN CNQER EKLP ILCTKEGLWTOEF KLCENLQGECP PPSSELNSVEYXKEQGYGI	1440
Dd	1614	LDSQCVLN CNQER EKLP ILCTKEGLWTOEF KLCENLQGECP PPSSELNSVEYXKEQGYGI	1673
Qy	1441	GAVCSPLCVI PPSPDPV MLPENITAD TLEHHMMEPVYQSI VCTGRROWHPDPVL VHCIQSC	1500
Dd	1674	GAVCSPLCVI PPSPDPV MLPENITAD TLEHHMMEPVYQSI VCTGRROWHPDPVL VHCIQSC	1733
Qy	1501	EPFOADGWCD TINNRAYCH YDGDCCSSTLSKKVI PFAADC DLDECTCRDPKAEENO	1558
Dd	1734	EPFOADGWCD TINNRAYCH YDGDCCSSTLSKKVI PFAADC DLDECTCRDPKAEENO	1791

RESULT 2
US-09-827-998-3

```

; Sequence 3, Application US/09827998
; Patent No. US20020102252A1
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: MDHMORF-8
; CURRENT APPLICATION NUMBER: US/09/827,998
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 3
; LENGTH: 1791
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-827-998-3

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Query Match	99.8%;	Score 8592;	DB 9;	Length 1791;
Best Local Similarity	99.8%;	Pred. No. 0;		
Matches 1555;	Conservative 1;	Mismatches 2;	Indels 0;	Gaps 0;
Qy 1	SPPEESNONGEGSYREAEFTNSQVGLPILYSGRRERLLRPEVLAIEPREAFTVEAW	60		
Db 234	SPPEESNONGEGSYREAEFTNSQVGLPILYSGRRERLLRPEVLAIEPREAFTVEAW	293		
Qy 61	KPEGQNNPAILAGVFDNCSTHTVSDKGWALGIRSGDKGRDARFFFSLCTDRVKATIL	120		
Db 294	KPEGQNNPAILAGVFDNCSTHTVSDKGWALGIRSGDKGRDARFFFSLCTDRVKATIL	353		
Qy 121	ISHSRYQPGTWTHTVAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMACSRLLIGDSS	180		
Db 354	ISHSRYQPGTWTHTVAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMACSRLLIGDSS	413		
Qy 181	EDGHYFRGHLGTLVFWSTALPOSHFOHSSOHSSGEEAATDLVLTASFEPVNTWVPERDE	240		

Db 414 EDGHYFRGHLGTLVFWSTALPQSHFOHSSQHSSEEEATDVLVTASFEPVNTWVPFRDE 473
Qy 241 KYPRLEVLQGFEPPEILSPLQPLCGQTVCDNVELISQYNGYWPRLGEEKVIRYQVNNIC 300
Db 474 KYPRLEVLQGFEPPEILSPLQPLCGQTVCDNVELISQYNGYWPRLGEEKVIRYQVNNIC 533
Qy 301 DDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCEPSKIGN 360
Db 534 DDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCEPSKIGN 593
Qy 361 DHCDPECEHPLTGYDGGDCRLQGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQVADVR 420
Db 594 DHCDPECEHPLTGYDGGDCRLQGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQVADVR 653
Qy 421 KTCFDPDSPKRAYNSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWMDKAVTHLG 480
Db 654 KTCFDPDSPKRAYNSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWMDKAVTHLG 713
Qy 481 GIVLSPAYYGMFGHTDTMIHEVGHVGLYHVFKVSERESNDPCKETVPSMETGDLCAD 540
Db 714 GIVLSPAYYGMFGHTDTMIHEVGHVGLYHVFKVSERESNDPCKETVPSMETGDLCAD 773
Qy 541 TAPTPKSELCREPPTSSTCGTRFPGAPFTNYSYTDNCTDNFTPNQVARMHCYLDLV 600
Db 774 TAPTPKSELCREPPTSSTCGTRFPGAPFTNYSYTDNCTDNFTPNQVARMHCYLDLV 833
Qy 601 YQOWTESRKPTPIPIPMVIGQTNKSLLTIHMLPISGVVYDRASGSLCGACTEDGTFRQY 660
Db 834 YQOWTESRKPTPIPIPMVIGQTNKSLLTIHMLPISGVVYDRASGSLCGACTEDGTFRQY 893
Qy 661 VHTASSRRVCDSSGYWTPEEAVGPPVDQPCESLQAWSPEVHLYHMMNTVPCPTGCSL 720
Db 894 VHTASSRRVCDSSGYWTPEEAVGPPVDQPCESLQAWSPEVHLYHMMNTVPCPTGCSL 953
Qy 721 ELLFOHPVQADTLTLWVTSFFMESSQVLPDTEILLENKESVHLGPLDTPCDIPLTIKLAHV 780
Db 954 ELLFOHPVQADTLTLWVTSFFMESSQVLPDTEILLENKESVHLGPLDTPCDIPLTIKLAHV 1013
Qy 781 DGKVSQVKVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVTHSH 840
Db 1014 DGKVSQVKVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVTHSH 1073
Qy 841 RKFTDVEVTPGQMYQYVLABAGGELGEASPPRLNIHGAPYCGDGKVSERLGEBCDDGDL 900
Db 1074 RKFTDVEVTPGQMYQYVLABAGGELGEASPPRLNIHGAPYCGDGKVSERLGEBCDDGDL 1133
Qy 901 VSGDGSCKVCELEBEGFNCVGEPSLCYMEGDGICEPERKTSIVDCGIYTPKGYLDQWAT 960
Db 1134 VSGDGSCKVCELEBEGFNCVGEPSLCYMEGDGICEPERKTSIVDCGIYTPKGYLDQWAT 1193
Qy 961 RAYSSHEDKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWPCVASENETQDDRSEOP 1020
Db 1194 RAYSSHEDKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWPCVASENETQDDRSEOP 1253
Qy 1021 EGSLKKEDEVWLKVCFNRPGEARAIIFILTTDGLVPGEHQOPTVTLVLTDVRSNHSLSGT 1080
Db 1254 EGSLKKEDEVWLKVCFNRPGEARAIIFILTTDGLVPGEHQOPTVTLVLTDVRSNHSLSGT 1313
Qy 1081 YGLSCQHNPLIINTVTHQNVLFHHTTSVVLNFPSSPRVGISAVALRTSSRIGLSAPSNCTIS 1140
Db 1314 YGLSCQHNPLIINTVTHQNVLFHHTTSVVLNFPSSPRVGISAVALRTSSRIGLSAPSNCTIS 1373
Qy 1141 EDEGQNHQGSCTIHRPCGKQDSCPSLLLDHADVNNCTSIGPGLMKCAITCQRGFALQASS 1200
Db 1374 EDEGQNHQGSCTIHRPCGKQDSCPSLLLDHADVNNCTSIGPGLMKCAITCQRGFALQASS 1433
Qy 1201 GOYIRPMQKEIILTCSSGHWQNVSCLPVDCGVPDPSLVNRYANFSCSEGTKFLKRCISISC 1260
Db 1434 GOYIRPMQKEIILTCSSGHWQNVSCLPVDCGVPDPSLVNRYANFSCSEGTKFLKRCISISC 1493
Qy 1261 VPPAKLQGLSPWLTCLEDELMSLPEVYCKLECDAPRIILNANLILPHCLQDNHNDVGTICK 1320
Db 1494 VPPAKLQGLSPWLTCLEDELMSLPEVYCKLECDAPRIILNANLILPHCLQDNHNDVGTICK 1553

Qy 1321 YECKPGYYVAESAEGKVRNKLKIQCLEGGIWEQSCIPVCEPPPVYEGMYECTNGFS 1380
Db 1554 YECKPGYYVAESAEGKVRNKLKIQCLEGGIWEQSCIPVCEPPPVYEGMYECTNGFS 1613
Qy 1381 LDSQCVLNCNQEREKLPILCTKEGLWTOBEKLCENLQGECPPPPSEINSVEYKCEQGYGI 1440
Db 1614 LDSQCVLNCNQEREKLPILCTKEGLWTOBEKLCENLQGECPPPPSEINSVEYKCEQGYGI 1673
Qy 1441 GAVCSPLCVTPSPSDPVMLEPENITADTLEHMEPVKVQISIVCTGRQWHPDVLVHCIOQC 1500
Db 1674 GAVCSPLCVTPSPSDPVMLEPENITADTLEHMEPVKVQISIVCTGRQWHPDVLVHCIOQC 1733
Qy 1501 EPPQADGWCDTINNRAYCHYDGGDCSSSTLSSKKVIFPAADCDLDECTCRDPKABENO 1558
Db 1734 EPPQADGWCDTINNRAYCHYDGGDCSSSTLSSKKVIFPAADCDLDECTCRDPKABENO 1791

RESULT 3
US-10-675-685-3
; Sequence 3, Application US/10675685
; Publication No. US20040063134A1
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: PB0114
; CURRENT APPLICATION NUMBER: US/10/675,685
; PRIOR FILING DATE: 2003-09-30
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 3
; LENGTH: 1791
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-675-685-3

Query Match 99.8%; Score 8592; DB 15; Length 1791;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1555; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
Qy 1 SPPEESNONGEGSYREAFETNSQVGLPILYFSGRERLLLRPEVLAETPREAFTVEAMV 60
Db 234 SPPEESNONGEGSYREAFETNSQVGLPILYFSGRERLLLRPEVLAETPREAFTVEAMV 293
Qy 61 KPEGQNNPAIIAGVPDNCSTVSDKGMALGIRSGKDGKRDARFFPSICTDRVKKATIL 120
Db 294 KPEGQNNPAIIAGVPDNCSTVSDKGMALGIRSGKDGKRDARFFPSICTDRVKKATIL 353
Qy 121 ISHSRYQPGTWTHVAATYDGRHMAALYYDGTQVASSLDQSGPLNSPMAASCRSLLLGDDSS 180
Db 354 ISHSRYQPGTWTHVAATYDGRHMAALYYDGTQVASSLDQSGPLNSPMAASCRSLLLGDDSS 413
Qy 181 EDGHYFRGHLGTLVFWSTALPQSHFOHSSQHSSEEEATDVLVTASFEPVNTWVPFRDE 240
Db 414 EDGHYFRGHLGTLVFWSTALPQSHFOHSSQHSSEEEATDVLVTASFEPVNTWVPFRDE 473
Qy 241 KYPRLEVLQGFEPPEILSPLQPLCGQTVCDNVELISQYNGYWPRLGEEKVIRYQVNNIC 300
Db 474 KYPRLEVLQGFEPPEILSPLQPLCGQTVCDNVELISQYNGYWPRLGEEKVIRYQVNNIC 533
Qy 301 DDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCEPSKIGN 360
Db 534 DDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCEPSKIGN 593
Qy 361 DHCDPECEHPLTGYDGGDCRLQGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQVADVR 420
Db 594 DHCDPECEHPLTGYDGGDCRLQGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQVADVR 653

QY	421	KTCFDPSPKRAYMSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWMDKDAVTHLG	480
Db	654	KTCFDPSPKRAYMSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWMDKDAVTHLG	713
QY	481	GIVLSPAYYGMPGHTDTMIHEGVHVLGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD	540
Db	714	GIVLSPAYYGMPGHTDTMIHEGVHVLGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD	773
QY	541	TAPTPKSELCREPEPTSDTCGTRFPGARFTNYMSYTDNCTDNFTPNQVARMHCYLDLV	600
Db	774	TAPTPKSELCREPEPTSDTCGTRFPGARFTNYMSYTDNCTDNFTPNQVARMHCYLDLV	833
QY	601	YQOMTESRKPTPIPIPMVIGQTNKSLTIHMLPPIISGVVYDRASGSLCGACTEDGTFRQY	660
Db	834	YQOMTESRKPTPIPIPMVIGQTNKSLTIHMLPPIISGVVYDRASGSLCGACTEDGTFRQY	893
QY	661	VHTASSRRVCDSSGYWTPEEAVGPPDVDQCEPSIQAMSPEVHLYHMMNTVPCPTGCSL	720
Db	894	VHTASSRRVCDSSGYWTPEEAVGPPDVDQCEPSIQAMSPEVHLYHMMNTVPCPTGCSL	953
QY	721	ELLFQHPVQADTLTLMWTSFEMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKLHV	780
Db	954	ELLFQHPVQADTLTLMWTSFEMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKLHV	1013
QY	781	DGKVSQVKTTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVTHSH	840
Db	1014	DGKVSQVKTTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVTHSH	1073
QY	841	RKFTDVEVTPGQMYQVLAEAGGELGEASPLNHIHGAPYCGDGKVSERLGECDGDL	900
Db	1074	RKFTDVEVTPGQMYQVLAEAGGELGEASPLNHIHGAPYCGDGKVSERLGECDGDL	1133
QY	901	VSGDGCSKVCLEEGNCVGEPSLCYMEGDCICEPFEKTSIVDCGITYPKGYLDQWAT	960
Db	1134	VSGDGCSKVCLEEGNCVGEPSLCYMEGDCICEPFEKTSIVDCGITYPKGYLDQWAT	1193
QY	961	RAYSSHEDKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWFPVASENETQDDRSEOP	1020
Db	1194	RAYSSHEDKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWFPVASENETQDDRSEOP	1253
QY	1021	EGSLKKEDEVWLKVCENRPEGARAIIFLTDTDELVPGEHQPTVTLYLTDVRSNHSLSGT	1080
Db	1254	EGSLKKEDEVWLKVCENRPEGARAIIFLTDTDELVPGEHQPTVTLYLTDVRSNHSLSGT	1313
QY	1081	YGLSCQHNPLIINVTHQONVLFHHTTSVVLNBSSPRVGISAVALRTSSRIGLSAPSNCSIS	1140
Db	1314	YGLSCQHNPLIINVTHQONVLFHHTTSVVLNBSSPRVGISAVALRTSSRIGLSAPSNCSIS	1373
QY	1141	EDEGQNHQGQSCIHPPCGKQDSCPSLLLDHADVNSTSIGPLMKCAITCQGFALQASS	1200
Db	1374	EDEGQNHQGQSCIHPPCGKQDSCPSLLLDHADVNSTSIGPLMKCAITCQGFALQASS	1433
QY	1201	GQYIRPMQKEILITCSSGHWQDQNSCLPVDGVPDPSLVNRYANFSCSEGTKFLKRCISISC	1260
Db	1434	GQYIRPMQKEILITCSSGHWQDQNSCLPVDGVPDPSLVNRYANFSCSEGTKFLKRCISISC	1493
QY	1261	VPPAKLQGLSPWLTCLEDELMSLPEVYCKLECDAPRIILNANLILPHCLQDNHDVGTICK	1320
Db	1494	VPPAKLQGLSPWLTCLEDELMSLPEVYCKLECDAPRIILNANLILPHCLQDNHDVGTICK	1553
QY	1321	YECKPGYYVAESAEGKVRNKLKIQCLEGGTWEQGSCTPVVCEPPPPVFEGMYECTNGFS	1380
Db	1554	YECKPGYYVAESAEGKVRNKLKIQCLEGGTWEQGSCTPVVCEPPPPVFEGMYECTNGFS	1613
QY	1381	LDSQCVLNCNQEREKLPILCTKEGLWTOEFKLCENLQGECPPPPSSELNSVEYKCEQGYGI	1440
Db	1614	LDSQCVLNCNQEREKLPILCTKEGLWTOEFKLCENLQGECPPPPSSELNSVEYKCEQGYGI	1673
QY	1441	GAVCSPLCVIPSPDPMVLPENITADTLEHNMPEPVKQSIIVCTGRQWHPDPVLVHCIQSC	1500
Db	1674	GAVCSPLCVIPSPDPMVLPENITADTLEHNMPEPVKQSIIVCTGRQWHPDPVLVHCIQSC	1733
QY	1501	EPFOADGWCDTINNRAYCHYDGDCCSSTLSSKKVLPFAADCDDLECTCRDPKABENQ	1558

Db	1734	EPFOANGWCDTINNRAYCHYDGDCCSSTLSSKKVLPFAADCDDLECTCRDPKABENQ	1791
RESULT 4			
US-09-827-998-10			
; Sequence 10, Application US/09827998			
; Patent No. US20020102252A1			
; GENERAL INFORMATION:			
; APPLICANT: Gu, Yizhong			
; APPLICANT: Shannon, Mark			
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E			
; FILE REFERENCE: MDHMF-8			
; CURRENT APPLICATION NUMBER: US/09/827,998			
; PRIOR APPLICATION NUMBER: US 60/207,456			
; PRIOR FILING DATE: 2000-05-26			
; PRIOR APPLICATION NUMBER: US 60/236,359			
; PRIOR FILING DATE: 2000-09-27			
; NUMBER OF SEQ ID NOS: 1881			
; SOFTWARE: Aeomica Sequence Listing Engine			
; SEQ ID NO 10			
; LENGTH: 1770			
; TYPE: PRT			
; ORGANISM: Homo sapiens			
US-09-827-998-10			
Query Match			
Best Local Similarity 95.9%; Score 8263; DB 9; Length 1770;			
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;			
QY	1	SPPEESNQNGEGSYREAETFNQVGLPILYFSGRERLLRPEVLAIPREAFVTEAWV	60
Db	234	SPPEESNQNGEGSYREAETFNQVGLPILYFSGRERLLRPEVLAIPREAFVTEAWV	293
QY	61	KPEGQNNPAIIAGVFDNCSTHTYSDKGWALGIRSGKDKRDARFFFSLCTDRVKATIL	120
Db	294	KPEGQNNPAIIAGVFDNCSTHTYSDKGWALGIRSGKDKRDARFFFSLCTDRVKATIL	353
QY	121	ISHSRYPGTWTHVAATYDGRHMLYVDQTQVASSLDQSGPLNSPFMA5CRSLLGDS	180
Db	354	ISHSRYPGTWTHVAATYDGRHMLYVDQTQVASSLDQSGPLNSPFMA5CRSLLGDS	413
QY	181	EDGHYFRGHLGTLVFWSTALPQSHFQHSSQHS5GEEAATDLVLTASFEPTNTEWVPRDE	240
Db	414	EDGHYFRGHLGTLVFWSTALPQSHFQHSSQHS5GEEAATDLVLTASFEPTNTEWVPRDE	473
QY	241	KYPRLEVLQGFEPPEILSPLOPPLCGQTVCDNVELLISQYNGWYPLRGEKVIRYQVNNIC	300
Db	474	KYPRLEVLQGFEPPEILSPLOPPLCGQTVCDNVELLISQYNGWYPLRGEKVIRYQVNNIC	533
QY	301	DDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQYHNSTLRHRVVLVNCPEPSKIGN	360
Db	534	DDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQYHNSTLRHRVVLVNCPEPSKIGN	593
QY	361	DHCDPECEHPLTYDGGDCRLQGRCY5WNRDGLCHVECNMMLNDFDDGDCDPQVADVR	420
Db	594	DHCDPECEHPLTYDGGDCRLQGRCY5WNRDGLCHVECNMMLNDFDDGDCDPQVADVR	653
QY	421	KTCFDPSPKRAYMSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWMDKDAVTHLG	480
Db	654	KTCFDPSPKRAYMSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWMDKDAVTHLG	713
QY	481	GIVLSPAYYGMPGHTDTMIHEGVHVLGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD	540
Db	714	GIVLSPAYYGMPGHTDTMIHEGVHVLGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD	773
QY	541	TAPTPKSELCREPEPTSDTCGTRFPGARFTNYMSYTDNCTDNFTPNQVARMHCYLDLV	600
Db	774	TAPTPKSELCREPEPTSDTCGTRFPGARFTNYMSYTDNCTDNFTPNQVARMHCYLDLV	833
QY	601	YQOMTESRKPTPIPIPMVIGQTNKSLTIHMLPPIISGVVYDRASGSLCGACTEDGTFRQY	660

Db 834 YQOWTESRKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLGACTEDGTFRQY 893
QY 661 VHTASSRRVCDSSGWTPEBAVGPRVDQPCBPSLQAMSPVHL YHNMNTVPCPTGCGSL 720
Db 894 VHTASSRRVCDSSGWTPEBAVGPRVDQPCBPSLQAMSPVHL YHNMNTVPCPTGCGSL 953
QY 721 ELLFQHPVQADTLTLWVTSFWMESQVLPDTEILLENKESVHLGPLDTFCDIPLTIKLV 780
Db 954 ELLFQHPVQADTLTLWVTSFWMESQVLPDTEILLENKESVHLGPLDTFCDIPLTIKLV 1013
QY 781 DGKVGKVTFTDERIEIDALLTSQHPSPSCGCRPVRYQVLRDPPFASGLPVVVTSH 840
Db 1014 DGKVGKVTFTDERIEIDALLTSQHPSPSCGCRPVRYQVLRDPPFASGLPVVVTSH 1073
QY 841 RKFTDVEVTPGMQYQVLAAGELGEASPRLNHIGAPYCGDGKVSERLGECDGDL 900
Db 1074 RKFTDVEVTPGMQYQVLAAGELGEASPRLNHIGAPYCGDGKVSERLGECDGDL 1133
QY 901 VSGDGSKVCELEBGFNCVGEPSLCMYEGDGI CEPEERKTSIVDCGIYTPKGYLDQWAT 960
Db 1134 VSGDGSKVCELEBGFNCVGEPSLCMYEGDGI CEPEERKTSIVDCGIYTPKGYLDQWAT 1193
QY 961 RAYSSHEDKKKCPVSLVTGEPHSLICTSYHNDLPNHRPLTGMFPCVASENETQDDRSEOP 1020
Db 1194 RAYSSHEDKKKCPVSLVTGEPHSLICTSYHNDLPNHRPLTGMFPCVASENETQDDRSEOP 1253
QY 1021 EGSLLKEDVWLKVCFNRPGEARAFILFTDGLVGEHQOPTVTL YLTDVRSNHSLSGT 1080
Db 1254 EGSLLKEDVWLKVCFNRPGEARAFILFTDGLVGEHQOPTVTL YLTDVRSNHSLSGT 1313
QY 1081 YGLSCQHNPLIINVTHQNVLFHHTTSVLNFSRPRVGISAVALRTSRIGLSAPSNCIS 1140
Db 1314 YGLSCQHNPLIINVTHQNVLFHHTTSVLNFSRPRVGISAVALRTSRIGLSAPSNCIS 1373
QY 1141 EDEGQNHQGSCHIRPCGKODSCPSLLBDHADVNCISIGPLMKCATCQRGFALQASS 1200
Db 1374 EDEGQNHQGSCHIRPCGKODSCPSLLBDHADVNCISIGPLMKCATCQRGFALQASS 1433
QY 1201 GQYIRPMQKEILLTCSSGHWDQNSCLPVDCGVPDPSLVNYANFSCSEGTKFLKRCISISC 1260
Db 1434 GQYIRPMQKEILLTCSSGHWDQNSCLPVDCGVPDPSLVNYANFSCSEGTKFLKRCISISC 1493
QY 1261 VPPAKLQGLSPWLTCLEDLGWSLPBVYCKLECDAPRIILNANLLPHCLQDNHDVGTICK 1320
Db 1494 VPPAKLQGLSPWLTCLEDLGWSLPBVYCKLECDAPRIILNANLLPHCLQDNHDVGTICK 1553
QY 1321 YECKPGYVAESAEGKVRNKLKIQCLEGGIWEQSCIPVVCERPPVFEQMEYECTNGFS 1380
Db 1554 YECKPGYVAESAEGKVRNKLKIQCLEGGIWEQSCIPVVCERPPVFEQMEYECTNGFS 1613
QY 1381 LDSQCVLNCNBEREKLPIILCTKEGLWTOEPKLCENLQGECPRPPELSNVEYKCEQYGI 1440
Db 1614 LDSQCVLNCNBEREKLPIILCTKEGLWTOEPKLCENLQGECPRPPELSNVEYKCEQYGI 1673
QY 1441 GAVCSPLCVTPSPDPVMLPENITADTLEHMEPVKVQISIVCTGRQWHPDVLVHCIOGC 1500
Db 1674 GAVCSPLCVTPSPDPVMLPENITADTLEHMEPVKVQISIVCTGRQWHPDVLVHCIOGC 1733
QY 1501 E 1501
Db 1734 E 1734

RESULT 5
US-10-675-685-10
; Sequence 10, Application US/10675685
; Publication No. US20040063134A1
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: PB0114
; CURRENT APPLICATION NUMBER: US/10/675,685

; CURRENT FILING DATE: 2003-09-30
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 10
; LENGTH: 1770
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-675-685-10

Query Match 95.9%; Score 8263; DB 15; Length 1770;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 SPPEESNQNGEGSYREAEFTNSQVGLPIILYFSGRRLRLRPEVLAIPREAFVTEAMV 60
Db 234 SPPEESNQNGEGSYREAEFTNSQVGLPIILYFSGRRLRLRPEVLAIPREAFVTEAMV 293
QY 61 KPEGGQNNPAIIAGVFDNCSHTVSDKMGALGIRSGDKGKRDPFPFSLCTDRVKATIL 120
Db 294 KPEGGQNNPAIIAGVFDNCSHTVSDKMGALGIRSGDKGKRDPFPFSLCTDRVKATIL 353
QY 121 ISHSRYQPGTWHVAATYDGRHMLYVDGTQVASSLDQSGPLNSPFMA SCRSLLGGDSS 180
Db 354 ISHSRYQPGTWHVAATYDGRHMLYVDGTQVASSLDQSGPLNSPFMA SCRSLLGGDSS 413
QY 181 EDGHYFRGHGLTVFMSTALPQSHFQHSQHSGBEATDVLVTASFEEDVNTWVPRDE 240
Db 414 EDGHYFRGHGLTVFMSTALPQSHFQHSQHSGBEATDVLVTASFEEDVNTWVPRDE 473
QY 241 KYPRLEVLOGEPEPEILSPLOPLCGQTVCDNVELISQYNGYWPRLGKVIKYQVNNIC 300
Db 474 KYPRLEVLOGEPEPEILSPLOPLCGQTVCDNVELISQYNGYWPRLGKVIKYQVNNIC 533
QY 301 DDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQVNSTLRHVVLVNCEPSKIGN 360
Db 534 DDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQVNSTLRHVVLVNCEPSKIGN 593
QY 361 DHCDPECEHPLTYDGDGCRLOGRCYSNRBDGLCHVECNMNLNDFDGDCCDPQVADVR 420
Db 594 DHCDPECEHPLTYDGDGCRLOGRCYSNRBDGLCHVECNMNLNDFDGDCCDPQVADVR 653
QY 421 KTCFDPDSPKRAYMSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWPDKDAVTHLG 480
Db 654 KTCFDPDSPKRAYMSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWPDKDAVTHLG 713
QY 481 GIVLSPAYYGMFGHTDTMIHEVGHVGLYHVFKGVSERESCNDPCKETVPSPMETGDLCAD 540
Db 714 GIVLSPAYYGMFGHTDTMIHEVGHVGLYHVFKGVSERESCNDPCKETVPSPMETGDLCAD 773
QY 541 TAPTPKSELCREPEPTSDTCGTRPGABFTNYMSYTDNCTDNFTPNQVARMHCYLDLV 600
Db 774 TAPTPKSELCREPEPTSDTCGTRPGABFTNYMSYTDNCTDNFTPNQVARMHCYLDLV 833
QY 601 YQOWTESRKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLGACTEDGTFRQY 660
Db 834 YQOWTESRKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLGACTEDGTFRQY 893
QY 661 VHTASSRRVCDSSGWTPEBAVGPRVDQPCBPSLQAMSPVHL YHNMNTVPCPTGCGSL 720
Db 894 VHTASSRRVCDSSGWTPEBAVGPRVDQPCBPSLQAMSPVHL YHNMNTVPCPTGCGSL 953
QY 721 ELLFQHPVQADTLTLWVTSFWMESQVLPDTEILLENKESVHLGPLDTFCDIPLTIKLV 780
Db 954 ELLFQHPVQADTLTLWVTSFWMESQVLPDTEILLENKESVHLGPLDTFCDIPLTIKLV 1013
QY 781 DGKVGKVTFTDERIEIDALLTSQHPSPSCGCRPVRYQVLRDPPFASGLPVVVTSH 840
Db 1014 DGKVGKVTFTDERIEIDALLTSQHPSPSCGCRPVRYQVLRDPPFASGLPVVVTSH 1073

QY	841	RKFTDVEVTPGOMYOQYVLAAGGELGEASPLLNHIGADPYCGDGKVSERLGEEDCDGDL	900
Db	1074	RKFTDVEVTPGOMYOQYVLAAGGELGEASPLLNHIGADPYCGDGKVSERLGEEDCDGDL	1133
QY	901	VSGDGSKVCELEEGFNCVGPSPSLCYMYEGDGI CEPPERKTSIVDCGIYTPKGYLDQWAT	960
Db	1134	VSGDGSKVCELEEGFNCVGPSPSLCYMYEGDGI CEPPERKTSIVDCGIYTPKGYLDQWAT	1193
QY	961	RAYSSHEDKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGMFPCVASENETODDRSEOP	1020
Db	1194	RAYSSHEDKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGMFPCVASENETODDRSEOP	1253
QY	1021	EGSLKKEDEVWLKVCENRPGEARAIFIFLTDTGLVPEHQOPTVTLYLTDVRGSNHSIGT	1080
Db	1254	EGSLKKEDEVWLKVCENRPGEARAIFIFLTDTGLVPEHQOPTVTLYLTDVRGSNHSIGT	1313
QY	1081	YGLSCQHNP LI INVTHQNVLFHHTTSV LNFSSPRVGISAVALRTSSRIGLSAPNSCIS	1140
Db	1314	YGLSCQHNP LI INVTHQNVLFHHTTSV LNFSSPRVGISAVALRTSSRIGLSAPNSCIS	1373
QY	1141	EDEGQNHOGQSC IHRPCGKODSCPSLLDHDADVNC TSI GPGLMKCAITCQRFALQASS	1200
Db	1374	EDEGQNHOGQSC IHRPCGKODSCPSLLDHDADVNC TSI GPGLMKCAITCQRFALQASS	1433
QY	1201	GQYIRPMOKEI LLTCS SGHMDQNV SCLPVD CGVPDPSLVNYANFSCSEGT KFLKRCSTSC	1260
Db	1434	GQYIRPMOKEI LLTCS SGHMDQNV SCLPVD CGVPDPSLVNYANFSCSEGT KFLKRCSTSC	1493
QY	1261	VPPAKLQGLSPWL TCLE DGLMSLPEVYCKLECDAPPI I L N A N L L L P H C L Q D N H D V G T I C K	1320
Db	1494	VPPAKLQGLSPWL TCLE DGLMSLPEVYCKLECDAPPI I L N A N L L L P H C L Q D N H D V G T I C K	1553
QY	1321	YECKPGYYVAESAEGKVRNKLK I QCLEGGIWEQSCIPVCEP P P V F E G M Y E C T N G F S	1380
Db	1554	YECKPGYYVAESAEGKVRNKLK I QCLEGGIWEQSCIPVCEP P P V F E G M Y E C T N G F S	1613
QY	1381	LDSQCVLNCNQER E K L P I L C T K E G L M T O E F K L C E N L O G E C P P P S E L N S V E Y K C E O G Y G I	1440
Db	1614	LDSQCVLNCNQER E K L P I L C T K E G L M T O E F K L C E N L O G E C P P P S E L N S V E Y K C E O G Y G I	1673
QY	1441	GAVCSP L C V I P P S D P V M L P E N I T A D T L E H M M E P V K V G S I V C T G R R O W H P D P V L V H C I Q S C	1500
Db	1674	GAVCSP L C V I P P S D P V M L P E N I T A D T L E H M M E P V K V G S I V C T G R R O W H P D P V L V H C I Q S C	1733
QY	1501	E 1501	
Db	1734	E 1734	

RESULT 6
US-09-827-998-16
; Sequence 16, Application US/09827998
; Patent No. US20020102252A1
; GENERAL INFORMATION:

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; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: MDHMORF-8
; CURRENT APPLICATION NUMBER: US/09/827,998
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 16
; LENGTH: 1385
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-827-998-16

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Query Match	71.1%;	Score 6126;	DB 9;	Length 1385;
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	Best Local Similarity	73.6%	Pred. No. 0;	Matches 1147;	Conservative 0;	Mismatches 5;	Indels 406;	Gaps 1;
QY	1	SPPEESNONGEGSYREAETENSQVGLPIFYSGRRERLLRPEVLAEIPREAFTEAWV	60					
Db	234	SPPEESNONGEGSYREAETENSQVGLPIFYSGRRERLLRPEVLAEIPREAFTEAWV	293					
QY	61	KPEGGQNNPAIIAGVFDNCSTVSDKGWALGIRSGDKGRDARFFPSLCTDRVKATIL	120					
Db	294	KPEGGQNNPAIIA-----	306					
QY	121	ISHSRYPGTWTHVAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMAAGCSLLLGDS	180					
Db	307	-----	306					
QY	181	EDGHYFRHLGTLVFWSTALPQSHFQHSQHSGEAEATDLVLTASFEPVNTIEWPFRDE	240					
Db	307	-----	306					
QY	241	KYPRLEVLQGFEPPEILSLQRPPLCGQTVCDNVELISQNGWPLRGEKVIROYVNIC	300					
Db	307	-----	306					
QY	301	DDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCPEPSKIGN	360					
Db	307	-----	306					
QY	361	DHCDPECEHPLTGYDGDCLQGRCYSWNRDGLCHVECNMMLNDFDDGCCDPQVAVR	420					
Db	307	-----	306					
QY	421	KTCFPDPSPKRAIYMSVKELKEALQLNSTHPLNIYFASSVREDLAGAATWMDKDAVTHLG	480					
Db	307	-----G 307						
QY	481	GIVLSPAYYGMPGHTDTMIHEVGHVLGLYHVPKGVSERESCNDPCKETVPSMETGDLCAD	540					
Db	308	GIVLSPAYYGMPGHTDTMIHEVGHVLGLYHVPKGVSERESCNDPCKETVPSMETGDLCAD	367					
QY	541	TAPTPKSELCREPEPTSDTCGTRFPGAPFTNMSYTDNCTDNFTPNQVARNHCYLDLV	600					
Db	368	TAPTPKSELCREPEPTSDTCGTRFPGAPFTNMSYTDNCTDNFTPNQVARNHCYLDLV	427					
QY	601	YQOWTESRKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGLCGACTEDGTFRQY	660					
Db	428	YQOWTESRKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGLCGACTEDGTFRQY	487					
QY	661	VHTASSRRVCDSSGYWTPEEAVGPPDVDQPCBPSLQAMSPEVHLYHMMNTVPCPTGCSL	720					
Db	488	VHTASSRRVCDSSGYWTPEEAVGPPDVDQPCBPSLQAMSPEVHLYHMMNTVPCPTGCSL	547					
QY	721	ELLFQHPVQADTLTLWVTSFFMESSQVLFDTILLLENKESVHLGPLDTFCDIPLTIKLHV	780					
Db	548	ELLFQHPVQADTLTLWVTSFFMESSQVLFDTILLLENKESVHLGPLDTFCDIPLTIKLHV	607					
QY	781	DGKVSQVKVYTFDERIEIDAALLTSQPHSPLCSGCRPVRYQVLRDPFASGLPEVVVTHSH	840					
Db	608	DGKVSQVKVYTFDERIEIDAALLTSQPHSPLCSGCRPVRYQVLRDPFASGLPEVVVTHSH	667					
QY	841	RKFTDVEVTPGQWYQYVLAELAGGELGEASPLNIHIGAPYCGDGKVSERLGEECDGDL	900					
Db	668	RKFTDVEVTPGQWYQYVLAELAGGELGEASPLNIHIGAPYCGDGKVSERLGEECDGDL	727					
QY	901	VSGDGSCKVCELEEGFNVCGEPSLCYMEBGDICEPFERKTSIVDCGIYTPKGYLDQWAT	960					
Db	728	VSGDGSCKVCELEEGFNVCGEPSLCYMEBGDICEPFERKTSIVDCGIYTPKGYLDQWAT	787					
QY	961	RAYSSHEDKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWFPVASENETQDDRSQOP	1020					
Db	788	RAYSSHEDKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWFPVASENETQDDRSQOP	847					
QY	1021	EGSLKKEDEVWLKVCENRPEGEARAFIFLITTDGLVGEHQOPTVTLVLTIVRSGNHSLSGT	1080					

Db 848 EGS�KKEDEWMLKVCFNRPGEARAIFILFTTDGLVPEGHQPTVTLYLTDVRSNHS�GT 907
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Db 908 YGLSCQHNPLIINVTHQNVLFHHTTSVLNFSSPRVGISAVALRTSSRIGLSAPSNCSIS 967
QY 1141 EDEGQNHQGSCHRPCKQDSCPSLLLDHADVVNCTSIGPGLMKCAITCQRGFALQASS 1200
Db 968 EDEGQNHQGSCHRPCKQDSCPSLLLDHADVVNCTSIGPGLMKCAITCQRGFALQASS 1027
QY 1201 GQYIRPMQKEILLTCSSGHWQDVNSCLPVDGVPDPSLVNYANFSCSEGTFLKRCISISC 1260
Db 1028 EQYIRLMQKEILLTCSSGHWQDVNSCLPVDGVPDPSLVNYANFSCSEGTFLKRCISISC 1087
QY 1261 VPPAKLQGLSPWLTCLJEDGLMSLPEVYCKLECDAPRIILNANLLPHCLQDNHDVGTICK 1320
Db 1088 VPPAKLQGLSPWLTCLJEDGLMSLPEVYCKLECDAPRIILNANLLPHCLQDNHDVGTICK 1147
QY 1321 YECKPGYVAESAEGKYRNKLIKIQCLEGGIWEQSCIPVCEPPRPVFEGMYECTNGFS 1380
Db 1148 YECKPGYVAESAEGKYRNKLIKIQCLEGGIWEQSCIPVCEPPRPVFEGMYECTNGFS 1207
QY 1381 LDSQCVLNCNQEREXLPILCTKEGLWTQEFKLCENLQGECPRPSELNSVYKCEQGYGI 1440
Db 1208 LDSQCVLNCNQEREXLPILCTKEGLWTQEFKLCENLQGECPRPSELNSVYKCEQGYGI 1267
QY 1441 GAVCSPLCVIPSPDPVWLPENITADTLEHWMMEPVKYQSIIVCTGRQWHPDPVLVHCIOQC 1500
Db 1268 GAVCSPLCVIPSPDPVWLPENITADTLEHWMMEPVKYQSIIVCTGRQWHPDPVLVHCIOQC 1327
QY 1501 EPFOADGWCDTINNRAYCHYDGDCCSSTLSKKYIPFAADCDLDECTCRDPKAEENQ 1558
Db 1328 EPFOADGWCDTINNRAYCHYDGDCCSSTLSKKYIPFAADCDLDECTCRDPKAEENQ 1385

RESULT 7
US-10-675-685-16
; Sequence 16, Application US/10675685
; Publication No. US20040063134A1
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: PB0114
; CURRENT APPLICATION NUMBER: US/10/675,685
; PRIOR FILING DATE: 2003-09-30
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 16
; LENGTH: 1385
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-675-685-16

Query Match 71.1%; Score 6126; DB 15; Length 1385;
Best Local Similarity 73.6%; Pred. No. 0;
Matches 1147; Conservative 0; Mismatches 5; Indels 406; Gaps 1;
QY 1 SPPEESNONGEGSYREAEFTNSQVGLPIYFSGRERLLLRPEVLAETPREAFTVEAMV 60
Db 234 SPPEESNONGEGSYREAEFTNSQVGLPIYFSGRERLLLRPEVLAETPREAFTVEAMV 293
QY 61 KPEGQNNPATIAGVFDNCSHTVSDKGWALGIRSGDKGRDARFFFSLCTDRVKATIL 120
Db 294 KPEGQNNPATIA----- 306
QY 121 ISHSRYQPGTWTHTVAATYDGRHMALYVDGTQVASSLDQSGPLNSPFMASCRSLLLGGDS 180
Db 307 ----- 306

QY 181 EDGHYFRGHLGTLVFWSTALPQSHFQHSQHSQSSGEEATDLVLTASFEPVNTWEPFRDE 240
Db 307 ----- 306
QY 241 KYPRLEVLQGFEBEPEILSPLOPLCGQTVCDNVELISQYNGYWPLRGEKYIRYQVNNIC 300
Db 307 ----- 306
QY 301 DDEGLNPIVSEEQIRLQHEALNEAFSRYNISMQLSVHQVNSTLRHRVVLVNCEPSKIGN 360
Db 307 ----- 306
QY 361 DHCDPECEHPLTGYDGGDCLRLQGRCYSWNRBDGLCHVECNMMLNDFDDGCCDPQVADV 420
Db 307 ----- 306
QY 421 KTCFDPDSPKRAYMSVKELKEALQLNSTHEPLNIYFASSVREDIAGAATWPKDAVTHLG 480
Db 307 -----G 307
QY 481 GIVLSPAYYGMPGHTDTMIHEVGHVGLYHYFKGVSERESCNDPCKEIVPSMETGDLCAD 540
Db 308 GIVLSPAYYGMPGHTDTMIHEVGHVGLYHYFKGVSERESCNDPCKEIVPSMETGDLCAD 367
QY 541 TAPTPKSELCEBEPTSDTCGTRFPGAPFTNYMSYTDNCTDNFTPNQYARMHCYLDLV 600
Db 368 TAPTPKSELCEBEPTSDTCGTRFPGAPFTNYMSYTDNCTDNFTPNQYARMHCYLDLV 427
QY 601 YQWMTESRKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGLCGACTEDGTFRQY 660
Db 428 YQWMTESRKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGLCGACTEDGTFRQY 487
QY 661 VHTASSRRVCDSSGYWTPBEAVGPPVDVQCEPSLQAWSPEVHLYHMMNTVPCPTEGCSL 720
Db 488 VHTASSRRVCDSSGYWTPBEAVGPPVDVQCEPSLQAWSPEVHLYHMMNTVPCPTEGCSL 547
QY 721 ELLFOHPVQADTLTLWNTSFFMESSQVLFTEILLNKESVHLGLPTFCDIPLTIKLVH 780
Db 548 ELLFOHPVQADTLTLWNTSFFMESSQVLFTEILLNKESVHLGLPTFCDIPLTIKLVH 607
QY 781 DGKVSQVYKTYFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVTHSH 840
Db 608 DGKVSQVYKTYFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVTHSH 667
QY 841 RKFTDVEVTGQMYQYQVLAELAGGELGEASPPLNHIHGAPYCGDGKYSERLGEBCDDGDL 900
Db 668 RKFTDVEVTGQMYQYQVLAELAGGELGEASPPLNHIHGAPYCGDGKYSERLGEBCDDGDL 727
QY 901 VSGDGSKYCELEEGFNVCVGEPSLCYMYEGDICEPERFKTSIVDCGIYTPKGYLDQWAT 960
Db 728 VSGDGSKYCELEEGFNVCVGEPSLCYMYEGDICEPERFKTSIVDCGIYTPKGYLDQWAT 787
QY 961 RAYSSHEDKKKCPVSLVTGEPHSLICTSYHPDLPNHRPLTGWPCVASENETQDDRSEOP 1020
Db 788 RAYSSHEDKKKCPVSLVTGEPHSLIRTSYHPDLPNHRPLTGWPCVASENETQDDRSEOP 847
QY 1021 EGS�KKEDEWMLKVCFNRPGEARAIFILFTTDGLVPEGHQPTVTLYLTDVRSNHS�GT 1080
Db 848 EGS�KKEDEWMLKVCFNRPGEARAIFILFTTDGLVPEGHQPTVTLYLTDVRSNHS�GT 907
QY 1081 YGLSCQHNPLIINVTHQNVLFHHTTSVLNFSSPRVGISAVALRTSSRIGLSAPSNCSIS 1140
Db 908 YGLSCQHNPLIINVTHQNVLFHHTTSVLNFSSPRVGISAVALRTSSRIGLSAPSNCSIS 967
QY 1141 EDEGQNHQGSCHRPCKQDSCPSLLLDHADVVNCTSIGPGLMKCAITCQRGFALQASS 1200
Db 968 EDEGQNHQGSCHRPCKQDSCPSLLLDHADVVNCTSIGPGLMKCAITCQRGFALQASS 1027
QY 1201 GQYIRPMQKEILLTCSSGHWQDVNSCLPVDGVPDPSLVNYANFSCSEGTFLKRCISISC 1260
Db 1028 EQYIRLMQKEILLTCSSGHWQDVNSCLPVDGVPDPSLVNYANFSCSEGTFLKRCISISC 1087

QY	1261	VBP	AKL	QGLSP	WLTCL	EDG	WLSL	PE	VYCKLE	CDA	PIIL	NAN	LLPHCL	QDN	NH	DV	GT	ICK	1320																																								
DB	1088	VBP	AKL	QGLSP	WLTCL	EDG	WLSL	PE	VYCKLE	CDA	PIIL	NAN	LLPHCL	QDN	NH	DV	GT	ICK	1147																																								
QY	1321	YE	CKP	GYVA	ESA	EAG	KV	NKL	LKI	QCL	E	G	I	W	E	O	G	S	C	I	P	V	V	C	E	P	P	P	P	V	F	E	G	M	E	C	T	N	G	S	1380																		
DB	1148	YE	CKP	GYVA	ESA	EAG	KV	NKL	LKI	QCL	E	G	I	W	E	O	G	S	C	I	P	V	V	C	E	P	P	P	P	V	F	E	G	M	E	C	T	N	G	S	1207																		
QY	1381	LDS	Q	CVL	NCN	Q	ERE	K	L	P	I	CT	K	E	G	L	W	T	O	E	F	K	L	C	E	N	L	O	G	E	P	P	P	P	S	E	L	N	S	V	E	Y	K	E	O	G	Y	I	1440										
DB	1208	LDS	Q	CVL	NCN	Q	ERE	K	L	P	I	CT	K	E	G	L	W	T	O	E	F	K	L	C	E	N	L	O	G	E	P	P	P	P	S	E	L	N	S	V	E	Y	K	E	O	G	Y	I	1267										
QY	1441	GAV	C	S	P	L	C	V	I	P	P	S	D	P	V	M	L	P	E	N	I	T	A	D	T	L	E	H	M	M	E	P	V	K	V	O	S	T	V	C	T	G	R	O	M	H	P	D	P	V	L	V	H	C	I	O	S	C	1500
DB	1268	GAV	C	S	P	L	C	V	I	P	P	S	D	P	V	M	L	P	E	N	I	T	A	D	T	L	E	H	M	M	E	P	V	K	V	O	S	T	V	C	T	G	R	O	M	H	P	D	P	V	L	V	H	C	I	O	S	C	1327
QY	1501	EP	F	O	A	D	G	W	C	D	T	I	N	N	R	A	Y	C	H	Y	D	G	D	C	C	S	T	L	S	S	K	V	I	P	P	A	A	D	C	D	L	D	E	C	T	C	R	D	P	K	A	E	N	Q	1558				
DB	1328	EP	F	O	A	D	G	W	C	D	T	I	N	N	R	A	Y	C	H	Y	D	G	D	C	C	S	T	L	S	S	K	V	I	P	P	A	A	D	C	D	L	D	E	C	T	C	R	D	P	K	A	E	N	Q	1385				

RESULT 8
US-09-98

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; Sequence 25, Application US/09983025
; Publication No. US20030124529A1
; GENERAL INFORMATION:
; APPLICANT: OXVIG, Claus
; APPLICANT: OVERGAARD, Michael T.
; TITLE OF INVENTION: PREGNANCY-ASSOCIATED PLASMA PROTEIN-A2 (PAPP-A2)
; FILE REFERENCE: OXVIG=1A
; CURRENT APPLICATION NUMBER: US/09/983, 025
; CURRENT FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/241, 840
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: DK PA 2000 01571
; PRIOR FILING DATE: 2000-10-20
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25
; LENGTH: 1627
; TYPE: PRT
; ORGANISM: Homo sapiens
;
US-09-983-025-25

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Query Match	45.5%;	Score 3916.5;	DB 10;	Length 1627;
Best Local Similarity	45.8%;	Pred. No. 8.8e-297;		
Matches 718; Conservative	296;	Mismatches 499;	Indels 53;	Gaps 25;

Qy	16	REAETENSQVGLP--ILYFSGRREL-LRPEVLAEIPREAFTVEAWKPEGONNPAAI	72
		: : : : : : : : : : :	
Db	80	REARGATEEPSPSPRALYFSGRGEOLVRADL--ELPRDAFTLQVWLRAEGQRSPAVI	137
Qy	73	AGVFDCNSHTVSDKGWALGIRSGKDKGRDARFFSLCTDRVKKATILISHSRYOPTWT	132
		: : : : : : : : :	
Db	138	TGLYDKCSYISRDRGMVVGIIHTISDQDNKDPKRYFFSLKTDRAQVTTINAHRSYLPQWV	197
Qy	133	HVAATYDGRHMALYVDGTQVASSLDSQGPINSPFMASCRSLLGGSSEDDHYFRGHLGT	192
		:: :: : : : : : : : : :	
Db	198	YLAAITYDQFMKLYVNGAQVATSGEYGGIFSPLTQCKKVLMLGG--SALNNHYRGYIEH	255
Qy	193	LVFWSTALPQSHFQHSSQHSQSGEEATDLVLTASFEPVNTIEWPFEDEKYPRLV--LQG	250
		: : : : : : : : : : : : : : : : : : :	
Db	256	FSLMKVARTQREILSDMETHGAHTALPQLLQENMDNVKHAWSPMKDGSSPKVEFSNAHG	315
Qy	251	FEPEPEILSPLOPPLCGQTVCDNVELLISQYNGWYPLRGEKVIRYOYVNICDDEGLNPIVS	310
		: : : : : : : : : : : :	
Db	316	FLLD---TSLERPLCGQTLCDNTEVIASYNQLSSFRQPKVVRIRVNLIEDDHKNPTVT	371
Qy	311	EEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCPEPSKIGNDHCDPECEHP	370
		: : : : : : : : : : :	
Db	372	REQVDFOHQLAEEAFKQYNISWEILDVLEVSNSSLRRRLILANCDISKIGENDCPECNHT	431
Qy	371	LTGYDGGDCR--LQGRCYSWNRBDGLCHEVCNNMLNDFDDGCCDPQAVAVRKTCFDPSDP	429

Db	432	LTGHDGDCRHLRHPAVKQOHNGVCDMDCNRENFEDGECDDPEITNVTQTCFEDPDS	491
Qy	430	KRAYMSVKELKEALQJNSTHFLNIYFASSVREDIAGAATWMDKAVTHLGGIYLSPAY	489
Db	492	HRAYLDVNELKNILKLDGSTHLNIFFAKSSSEELAGVATWPMDKALMHLGGIYLNPSFY	551
Qy	490	GMPGHTDTMIHEVGHVLCIYHVFKGVSERESCNDDCKETVPSMETGDLCADTAPTPKSEL	549
Db	552	GMPGHTHTMIHEIGHSLGLYHVFRCISLQSCSDPCMETEPTSPETGDLCDNTNAPKHS	611
Qy	550	CREPEPTSDTCGFTRFGAPFTNYMSYTDNCTNFTPNQVARMHCYLDLVYQOWTESRK	609
Db	612	CGDPFGNDTCGFHSFENTPYNNFMSYADDCTDTSFTPNQVARMHCYLDLVYQOWPSRK	671
Qy	610	PTPIPIPMVIGQTNKSLTIHMLPPISGVYDRAAGSLCGACTEDGTRQYVHTASSRV	669
Db	672	PAPVALAPQVLGHTTDSVLTLEWFPPIDGHPFERELGSACHLCLEGRILVQYASNASSPMP	731
Qy	670	CDSGXYTPPEAVGPRPDVDQPCPSLQAWSPEVHLYHMNTVPCP-TEGCSLELLFQHPV	728
Db	732	CSPSGHWSPREAEGHPDVEQPCSSVRTWSPNSAVNPHTVPRACPEPQCYLELEFLYPL	791
Qy	729	QADTLTLWVT--SFMESSQVLFDTBILLENKESVHLGPLDTFCDIPLTIKL-HYDGKVS	785
Db	792	VPESLTIWTFVSTDMDSGAVNDIKLAVSGKNISLGPNVFCDVPLTIRLMDVGEHY	851
Qy	786	GKVYTFDERIEIDALLTSQPHSPLCSGCRPRVQYVLRDPPFASGLPVVVTSHRKFTD	845
Db	852	GIQIYTLDEHLEIDAMLSTADTPLCLQCKPLKYVRDPLQMDVASIL-HLNRFVD	910
Qy	846	VEVTPGOMYQOVLAEAGELGEASPLNHIHAGDYCGDGKVSERLGEBCDGLVSGDG	905
Db	911	MDNLGVSVOYWVITISGTESEBSPAVTYIHGRGYCGDGIIOKDQGEQCDMMKNKINGDG	970
Qy	906	CSKVCELEEGFNCVGBESLICYMEGDGICEPERKTSIVDCGIYTPKGYLDQWATRAYSS	965
Db	971	CSLFCRQEVSFNCIDERSRCYFHDGDGVCEEFEQKTSIKDCGVYTPQGFLLDQWASNASVS	1030
Qy	966	HEDKKKCPVSLVTGEP-HSLICTSYHPDLPNHRPLTWGFPVASENETQDDRSQDEGSL	1024
Db	1031	HQD-QQCPGWWITIGQPAASQVCRTKVIDLSEGISQHAMYPCTISYFYSQ-----	1078
Qy	1025	KKEDEVWLKVCFNRPGEARAFIFLTDDGLVPEHQOQPTVTLXYLTDVRGSNHSIGTYGLS	1084
Db	1079	LAQTFWLRAYFSQPMVAALAVIHLVTDGTYGDKQKQETISVQLLDTKDQSHDLGLHVL	1138
Qy	1085	COHNPLIINTVTHQVNLFHHTTSVLNLFSSPRVGISAVALRTSSRIGLSAPNSCISEDEG	1144
Db	1139	CRNNPLIIPVHDLSDOPFYHSQAVRVSFSSPLVAISGVALRSFDNFDPTLSSC-QRGET	1197
Qy	1145	QNHQOSCIHRPCGKODSCPSLLLDHADVNCTSI---GFLMKCAITCORGFALQASS	1200
Db	1198	YSPAEOQSVHFACCKTD-CPELAVENAS-LNCSSSDRYHG--AQCTVSCRTGYVLQIRR	1252
Qy	1201	GQYIRPMQ--KEILLTCSSGHWMDQVNSCLPVDGVPDPSPVLVNYANFSCSEGTKEPKCSI	1258
Db	1253	DDELIKQGTGSPVATYCTEGKMNKQVACEPDCSIPDHQVYAAFSFCPEGTGFSQCSF	1312
Qy	1259	SCVPRAKLQGLSPWLTCLEDGLMSLPVYVCKLECDAPRIILANLPLPHCLQDNHDVGTI	1318
Db	1313	QCRHPAQLKGNNSLTLCMEDGLMSFPBALCELMCLARPPVPVNPADLQIARCRENKHYGSF	1372
Qy	1319	CKYECKPGRYYVAESAEGKVRANKLKIQCLEGGTWEQSCIPVVCBPPPVFEWYECTNG	1378
Db	1373	CKYCKCPGYHVPSSR-KSKRAFKTQCTQDGSNQEGACVAVTCDPPPKFHGLYQCTNG	1431
Qy	1379	FSLDSQCVLNC---NQEREKLPI LTCKEGLMTQEFKLCENLOGECPPPSSELNS-VBY	1432
Db	1432	FQFNSECRIKCEDSDASQGLGSNVIHCRKDGTVNGSFHVCOEQQC-SVPNELSNLKL	1490
Qy	1433	KCEQGYGIGAVCSPLCVTPSPDPVMLPENITADTLEHMMEPVKVQSI VCTGRQWHPDV	1492

Db 1253 DDELIKSQTGPSVTVTCTEGKWNKQVACEPVDCSI PDHHQVYVYASFSCEGTTFGSQCSF 1312

Qy 1259 SCVPPAKLQGLSPWLTCTLEDGLWSLPEVYCKLECDAPPIILNANLLPHCLQDNHDVGTI 1318

Db 1313 QCRHPAQLKGNNSLLTCTMEDGLMSFPEALCELMCLAPRPVPNADLQOTARCHENKHVGSF 1372

Qy 1319 CKYECKPGYVVAESAEGKVRNKLKIQCLEGGIWEQSGCIPVCEPPRPVFEEMYECTNG 1378

Db 1373 CKYKCKPGYHVPGSSR-KSKRAFKTQCTQDGSWQEGACVPVTCDPBPBFHGLYQCTNG 1431

Qy 1379 FSLDSQCVLN-----NQEREKLPILCTKEGLWTQEFKLCENLQGECPRPSELNS-VEX 1432

Db 1432 FQFNSECRICKEDSDASQGLGSNVIHCRKDGTMNGSFHVCQEMQGOC-SVPNELNSNLKL 1490

Qy 1433 KCEQGYGIGAVCSPLCVIPPSPDVMLPENITADTLEHMMEPVKVQSVICTGRQWHPDPV 1492

Db 1491 QCPDGYAIGSECATSCLDHNSSEIILPMNVTVRDI PHWLNPTRVERVCTAGLKWYPHPA 1550

Qy 1493 LVHCIOGCEPFQADGMCDTINNRAYCHYDGDCCSSTLSKKVIPFAADCDLD-ECTCRD 1551

Db 1551 LIHCVKGCEPFMGDNYCDAINNRAFCNVDGDCCTSTVTKTKVTPFPMSCDLQGDCACRD 1610

Qy 1552 PKABEN 1557

Db 1611 PQAQEH 1616

RESULT 10

US-10-783-311-1

; Sequence 1, Application US/10783311

; Publication No. US20050009136A1

; GENERAL INFORMATION:

; APPLICANT: Nixon, Andrew

; APPLICANT: Hogan, Shannon

; TITLE OF INVENTION: PAP-A LIGANDS

; FILE REFERENCE: 10280-059001

; CURRENT APPLICATION NUMBER: US/10/783,311

; CURRENT FILING DATE: 2004-02-19

; PRIOR APPLICATION NUMBER: US 60/448,515

; PRIOR FILING DATE: 2003-02-19

; NUMBER OF SEQ ID NOS: 394

; SOFTWARE: FastSeq for windows Version 4.0

; SEQ ID NO 1

; LENGTH: 1627

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-783-311-1

Query Match 45.5%; Score 3916.5; DB 17; Length 1627;

Best Local Similarity 45.8%; Pred. No. 8.8e-297;

Matches 718; Conservative 296; Mismatches 499; Indels 53; Gaps 25;

Qy 16 REAETENSQVGLP--ILYFSGRRL-LLRPEVLAIEPREAFTVEAWKPEGQNNPAII 72

Db 80 REARGATEPSPSPRALYFSGRGEQLRVLRADL--ELPRDAFTLQVWLRAEGGQSPAVI 137

Qy 73 AGVFDNCSHTVSDKGWALGIRSGDKGKRDAFPFSLCTDRVKKATILISHSRYPGTWT 132

Db 138 TGLYDKCSYISRDRGWVGIHTISDQDNKDPFRYFSLKTDRAQVTTINAHRSYLPQWV 197

Qy 133 HVAATYDGRHMAIYVDGTQVASSLSDQSGPLNSPFMAWSCRSLLLGGDSSEGHYFRGHLGT 192

Db 198 YLAATYDGFMKLYNQAQVATSGBQVGIFSPLTQCKVLMGG--SALNHNRYGRIEH 255

Qy 193 LVFWSTALPQSHFQHSQHSSEBEATDVLVTASFEPVNTWVPFRDEKYPRLLEV--LQG 250

Db 256 FSLWKVARTQREILSDMETHGAHTALPQLLQENWMDNVKHAWSPMKDGSSPKVEFSNAHG 315

Qy 251 FEPEPEILSPLOPLCGQTVCDNVELISQYNGWPLRGKVIKRYQVNI CDDEGLNPIVS 310

Db 316 FLDD---TSLEPPLCGQTLCDNTEVIASYNQJSSFRQPKVRYRVVNLVEDDHKNPTVT 371

Qy 311 EEOIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCEPSKIGNDHCDPECEHP 370

Db 372 REQVDFQHHQLAFAFKQYNI SWELDVLEVSNSLSRRLLILANCDISKIGENDCPECNHT 431

Qy 371 LTGYDGDGR-LQGRCSWNRRDGLCHVECNMNLNDFDDGDCDQVADVRKTCFDPDSP 429

Db 432 LTGHDDGDCRHLRHPAFVKQKHNGVCDMDCNERFNFPGGECCEPEITNVOTCFDPDSP 491

Qy 430 KRAYMSVKELKEALQLNSTHFLNIYFPASSVRREDLAGAATWPMWDVATHLGGIVLSPAY 489

Db 492 HRAYLDVNEIKNILKLDGSTHLNIFPAKSSSEBELAGVATWPMWKEALMHLGGIVLNSFY 551

Qy 490 GMPGHTDMTHEVGHVGLYHVEFKVYSERESCNDPCKETVPMSMETGDLCADTAPPKSEL 549

Db 552 GMPGHTHTMTHEIGSLGLYHVFRISEIQSCSDPCMETEPEPSFETGDL CNDTNPAPKHKS 611

Qy 550 CREPEPTSDTCGFTREFPGAPFTNMSYTDNCTDNFTPNQVARMHGYLDLVYQQWTESRK 609

Db 612 CGDPGPGNDTCGFHSFNTPYNNMSYADDCTDSFTPNQVARMHGYLDLVYQGWQPSRK 671

Qy 610 PTPPIPPMWIGQTNKSLTIHMLPPISGVYDRASGSLGACTEDGTFRQYVHTASSRRV 669

Db 672 PAPVALAPQVLGHTTDSVTLWEFPRIDGHEFERELGSACHLCIEGRILVQYASNASSPMP 731

Qy 670 CDSGYWTPBEAVGPRPDVDQPCERPSLOAWSPEVHLYHMMNTVPCP-TEGCSLELLFQHPV 728

Db 732 CSPSGHMSPREAEGHPDVEQPCKSVRTWSPNSAVNPHVTVPACDEPQGCYLELEFLYPL 791

Qy 729 QADTLTLWT--SFFMESSQVLFETELLEENKESVHLGPLDTFCDIPLTIKL-HVDGKVS 785

Db 792 VPESLTITWTFVSTWDSSGAVNDIKLLAVSGKNISLGPONVFCDVPLTIRLMDVGEEVY 851

Qy 786 GVKVYTFDERIEIDALLTSQHPSPICSGCRPVRYQVLRDPPRAGLPVVVTHSHRKFTD 845

Db 852 GIQVYTLDEHLEIDAAMLTSTADTPLCLQCKPLKYKVRDPLQMDVASIL-HLNRKFVD 910

Qy 846 VEVTPGQMYQVYLABAGGELGEASPPLNHIGAPYCGDGKVSERLGECCDDGLVSGDG 905

Db 911 MDLNLGSVYQYVWITISGTESESPSAVTYIHGRYCGDGI IQDQGEHQCDMDMNKINGDG 970

Qy 906 CSKVCELEEGFNCVGEPSLCYMYEGDGEI CEFPERKTSIVDCGIYTPKGYLDQWATRAYSS 965

Db 971 CSLFCRQEVSFNCIDEPSCRYPHFDGVCBEFEQKTSIKDCGVYTPQGFLDQWASNASVS 1030

Qy 966 HEDKKKCPVSLVTGEP-HSLICTSYHDDLPHNRPLTGWFPVCVASENETQDDRSQPEGSL 1024

Db 1031 HQD-QQCPGWNIIIGQPAASQVCRTKYIDLSEGISQHAMYPCTTISYPYSQ----- 1078

Qy 1025 KKEDEVWLKVCFNRPGEARAIFILTTDGLVPGEHQPTVTLYLDVRGSNHS�TYGLS 1084

Db 1079 LAQTFFWLRAVFSQPMVAADVIVHLVDTGYGQKQETISVQLDPTKQSHDLGLHVLIS 1138

Qy 1085 CQHNPLIINVT HQNVL FHHSTSVLINFSSPRVGISAVALRTSRIGLSAPSNCISEDEG 1144

Db 1139 CRNNPLIIPVYHDLQPFYHSQAVRVSFSSPLVAISGVALRSPDNFDPVTLSSC-QRGET 1197

Qy 1145 QNHQGSCTHRPCGKQDSCPSLLDHDADVNCTSI---GPGLMKCAITCQRGFALQASS 1200

Db 1198 YSPAEGSCVHFACEKTD-CPBLAVENAS-LNCSSSDRYHG--AQCTVSCRTGYVLQIRR 1252

Qy 1201 GQYIRPMQ--KEILLTSSGHWMDQNVSCLPVDCGVPDPSLVNYANFSCSEGTKFLKRC SI 1258

Db 1253 DDELIKSQTGPSVTVTCTEGKWNKQVACEPVDCSI PDHHQVYVYASFSCEGTTFGSQCSF 1312

Qy 1259 SCVPPAKLQGLSPWLTCTLEDGLWSLPEVYCKLECDAPPIILNANLLPHCLQDNHDVGTI 1318

Db 1313 QCRHPAQLKGNNSLLTCTMEDGLMSFPEALCELMCLAPRPVPNADLQOTARCHENKHVGSF 1372

Qy 1319 CKYECKPGYVVAESAEGKVRNKLKIQCLEGGIWEQSGCIPVCEPPRPVFEEMYECTNG 1378

Db 1373 CKYKCKPGYHVPGSSR-KSKRAFAKTQCTQDGSWQEGACVPVTCDPBPBFHGLYQCTNG 1431

Qy 1379 FSLDSQCVLN-----NQEREKLPILCTKEGLWTQEFKLCENLQGECPRPSELNS-VEX 1432

Db 1432 FQFNSECRICKCEDSDASQGLGSNVIHCRKDGTMNGSFHVCQEMQGOC-SVPNELNSNLKL 1490

Qy 1433 KCEQGYGIGAVCSPLCVIPSPDPVMLPENITADTLEHMMBPVKVQSIYCTGRQWHPDPV 1492

Db 1491 QCPDGYAIGSECATSCLDHNSESIILPMNVTVRDI PHWLNPTREVERVCTAGLKWYPHPA 1550

Qy 1493 LVHCIOGCEPFQADGWCMTINNRAYCHYDGDCCSSTLSKKVIPFAADCILD-ECTCRD 1551

Db 1551 LIHCVKGCEPFMGDNYCDAINNRAFCNYDGDCCSTVTKKVTPEFMSCDLQGDCACRD 1610

Qy 1552 PKAEEN 1557

Db 1611 POAQEH 1616

RESULT 11

US-10-741-600-1406

/ Sequence 1406, Application US/10741600

/ Publication No. US20050026169A1

/ GENERAL INFORMATION:

/ APPLICANT: CARGILL, Michele et al.

/ TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH

/ TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF

/ FILE REFERENCE: CL001499

/ CURRENT APPLICATION NUMBER: US/10/741,600

/ NUMBER OF FILING DATE: 2003-12-22

/ NUMBER OF SEQ ID NOS: 73997

/ SOFTWARE: FastSeq for Windows Version 4.0

/ SEQ ID NO 1406

/ LENGTH: 1627

/ TYPE: PR

/ ORGANISM: Homo sapiens

US-10-741-600-1406

Query Match 45.5%; Score 3916.5; DB 17; Length 1627;

Best Local Similarity 45.8%; Pred. No. 8.8e-297;

Matches 718; Conservative 296; Mismatches 499; Indels 53; Gaps 25;

Qy 16 REAETNSQVGLP--ILYFSGRERL-LRPEVLAIEPREAFTVEAWYKDEGQNNPAII 72

Db 80 REARGATEEPSPSRALYFSGRGEQLRVLRADL--ELPRDAFTLQVWLRAEGGQSPAVI 137

Qy 73 AGVFDNCSHIVSDKGWALGIRSGKDKGRDARFFFSLCTDRVKKATILISHRYQGTWT 132

Db 138 TGLYDKCSYISRDGRWVVGIIHTISDQNKDPRYFFSLKTDRAQVTTINAHRSYLPQWV 197

Qy 133 HVAATYDGRHMAIYVDTQVASSLDQSGPLNSPFMACSRLLLGDSSEDDGHYFRGLGT 192

Db 198 YLAATYDQGFMLYVNGA VATSGEYGVGIFSLTQCKVLMLG--SALNHNRYGIEH 255

Qy 193 LVFWSTALPQSHFQSSQHSSEBEATDVLTLASFEPVNTWVPRDEKYPRLLEV--LOG 250

Db 256 FSLMKVARTQREILSDMETHGAHTALPQLLDENWMDNVKHAMSPMKDSSPKVEFSNAHG 315

Qy 251 FEPEPEILSPLOPPLCGQTVCDNVELISQYNGYWPRLRGEKVIRYQVYNICDDEGLPIVS 310

Db 316 FLID---TSLBPPLCGQTLCDNTEVIASYNQISSFRQPKVVRVAVNLIEDHKNPTVT 371

Qy 311 EEOIRLOHEALNEAFSRYNISWQLSVHQVNSTLRHVVLVNCEPSKIGNDHCDECEHP 370

Db 372 REQVDFOHQLAEPKQYNISWELDVLEVNSSLRRRLILANCDISKIDENCDPECNHT 431

Qy 371 LTGYDGGDCR--LOGRCYSWNRDGLCHVECNMMLNDFDGDCCDPQVADYRKTCEPDSP 429

Db 432 LTGHDGDCRHLRHPAFVKQHNGVCDMDCNYERFNFDGGECCDPEITNVTQTCEPDSP 491

Qy 430 KRAYMSVKELKEALQNLSTHFLNIFASSVREDLAATWPMKDAVTHLGIVLSPAY 489

Db 492 HRAYLDVNELKNILKLDGSTHLNIFFAKSGSEELAGVATWPMKDEALMHLGIVLNSFY 551

Qy 490 GMPGHTDTMHEVGHVGLYHVFKGVSERESCNDPCKETVPSMETGDLCADTAPTPKSEL 549

Db 552 GMPGHTHTMHEIGHSLGLYHVFRGISLQSCSDPCMETEPEFETGDLCDNTNPAFKHS 611

Qy 550 CREPEPTSDTCGTRFPFAPFTNTMSYTDNCTDNFTPNQVARMHCYLDLVYQOWTESRK 609

Db 612 CGDPGPGNDTCGFHSFNTPTYNFMSTADDDCTDSFTPNQVARMHCYLDLVYQOWPSRK 671

Qy 610 PTPPIPPMVIQGTNKSLLTIHMLPRISGVVYDRASGLCGACTEDGTFRQYVHTASSRAV 669

Db 672 PAPVALAPQVLGHTTDSVTLWEFPRIIDGHFERELGSACHLLEGRILVQYASNASSPMP 731

Qy 670 CDSGMYTPPEAVGPRPDVDQCEPSLQAMSPBEVHLYHMMNTVPCP--TEGCSLELLFQHPV 728

Db 732 CSPSGHMSPREAEGHPDVEQPCSSVRTWSPNSAVNPHTVPRACPEPQGCYLELEFLYPL 791

Qy 729 QADTLTLMWT--SFFMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKL-HVDGKVS 785

Db 792 VPESLTIWTFVSTDWSSGAVNDIKLAVSGKNISLGPQNVFCDVPLTIRLMDVGEVY 851

Qy 786 GVKVYTFDERIEDALILTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVYTHSHRKFTD 845

Db 852 GIQIYTLDEHLEIDAAMLSTADTPLCQCKPLKYKVRDPLQMDVASIL-HLNRRKFVD 910

Qy 846 VEVTPGQWQOYVLAAGELGEASPLNHIHGAARYCGDGKVSERLGECCDDGLVSGDG 905

Db 911 MDNLGSAVYQWVITISGTESESPRAVYIHRGYCGDGLIQKDQGEQCDMMKINGDG 970

Qy 906 CSKVCLEBEGFNCVGEPSLCYMEBGDICEPEPERKTSIVDCGIYTPKGYLDQWATRAYSS 965

Db 971 CSLFCRQEVSFNCIDEPSCRYPHDGDVCEBEFOKTSIKDCGVYTPQGFIDQWASNASVS 1030

Qy 966 HEDKKKCPVSLVTGER-HSLICTSYHPLPNHRPLTGMFPCVASENETDDDRSEQPEGSL 1024

Db 1031 HQD-QQCPGWTIIGQPAASQVCRKVIDLSEGISQHAMYPCTISYPSIQ----- 1078

Qy 1025 KKEDEVWLKYCFNRPEGEARAFIFILTTDGLVGEHQPTVTLTYLTDVRSNHSLGTYGLS 1084

Db 1079 LAQTTFWLRAVFSQPMVAAVIHLVTDGTYYGDQKETISVQLDTRKQSHDLGLHVLVS 1138

Qy 1085 COHNPLIINTHQNVLFHHTTSVLLNFSPRGVISAVALRTSSRIGLSAPSNCTSEDEG 1144

Db 1139 CRNNPLIIPVHDLISQPFYHSQAVRVSFSSPLVAISGVALRSFDNFDPLYTLSSC-QRGET 1197

Qy 1145 QNHQGSCTHRPCGKODSCPSLLLDHADVNVCTSI---GPGLMKCAITCORGALQASS 1200

Db 1198 YSPAEGSCVHFACEKTD-CPELAVENAS-LNCSSSDRYHG--AQCTVSCRTGYVLQIRR 1252

Qy 1201 GQYIRPMQ--KEILLTSSGHMDQNVSCLPVDCGVDPDPSLVNRYANBSSEGTKFLKCSI 1258

Db 1253 DDELKISQGTGSPVTCTEGKWNKQVACEPYDCSIPDHQVYAASFSGEPTTFGSQCSF 1312

Qy 1259 SCVPPAKLOGISFWLTCLEDGLWSLPEVYCKLECDAPRIILNANLLBHCLODNHDVGTI 1318

Db 1313 QCRHPAQKGNNSLLTCMEDGLWSFPEALCELMCLAPRPVPNADLTQARCRENHKXVGSF 1372

Qy 1319 CKYECKPGYVVAESAEGKVRNKLKIQCLEGGIWEQGSIPVVCSEPRPVFEGMYECTNG 1378

Db 1373 CKYKCKPGYHVPSSSR-KSKKRAFKTQCTQDGSWQEGACVPVTCDRPRPKFHGLYQCTNG 1431

Qy 1379 FSLDSQCVLNC-----NQEREKLPILCTKEGLWTQEFKLCENLQGECPRPPELSNS-V 1432

Db 1432 FQFNSECRICKCEDSDASQGLGSNVIHCRKDGTMNGSFHVCQEMQGOC-SVPNELNSNLKL 1490

Qy 1433 KCEQGYGIGAVCSPLCVIPSPDPVMLPENITADTLEHMMBPVKVQSIYCTGRQWHPDPV 1492

Db 1491 QCPDGYAIGSECATSCLDHNSESIILPMNVTVRDI PHWLNPTREVERVCTAGLKWYPHPA 1550

Qy 1493 LVHCIOGCEPFQADGWCMTINNRAYCHYDGDCCSSTLSKKVIPFAADCILD-ECTCRD 1551

Db 1551 LIHCVKGCEPFMGDNYCDAINNRAFCNYDGDCCSTVTKKVTPEFMSCDLQGDCACRD 1610

Qy 1552 PKAEEN 1557

Db 1611 POAQEH 1616

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RESULT 12
US-10-991-321-32
; Sequence 32, Application US/10991321
; Publication No. US20050112675A1
; GENERAL INFORMATION:
; APPLICANT: Kochen, Jarema Peter
; APPLICANT: Rosinski, James Andrew
; TITLE OF INVENTION: Specific Markers for Metabolic Syndrome
; FILE REFERENCE: 21742 US1
; CURRENT APPLICATION NUMBER: US/10/991,321
; CURRENT FILING DATE: 2004-11-17
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 32
; LENGTH: 1627
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-991-321-32

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Query Match	45.5%	Score 3916.5;	DB 17;	Length 1627;
Best Local Similarity	45.8%;	Pred. No. 8.8e-297;		
Matches 718;	Conservative 296;	Mismatches 499;	Indels 53;	Gaps 25

QY	16	REAETPNSQVGLP--ILYFSGRRRL-LLRPEVLAEIPREAFIYEAWVKEGGONPAIT	72
Db	80	REARGATEEPSPPSRALYFSGREGQRLVRADL--ELPRDAFTLQVWLRAEGGORSPAVI	137
QY	73	AGVEFDCSHTVSDKGWALGIRSGDKGRDARFFFSLCTDRVKATILISHSRYPGTWT	132
Db	138	TGLYDKCSYISRDRGWVGIHTISDQDNKDPRYFFSLKTRARQVTTINAHRSYLPQWV	197
QY	133	HVAATYDGRHMALYVDGTQVASSLDQSGPLNSPFMA SCRSLLIGDSDSEGHYFRHLGT	192
Db	198	YLAATYDQFMKLYVNGAQVATSGEQVGIFSPLTQCKVLMLG--SALHNHYRGYIEH	255
QY	193	LVFWSTALPQSHFQHSQHSQHSSEEAATDVLVTASFEPVNTIEWPFERDEKYPRLEV--LOG	250
Db	256	FSLMKVARTQREILSDMETHGAHTALPQLLQENWDNVKHAWSPMKDSSPKVEFSNAHG	315
QY	251	FEPEPEILSPLOPPLCGQTVCDNVELISQYNGYWPLRGEKVIROYOVNICDDEGLNPYVS	310
Db	316	FLLD----TSLERPPLCGQTLCDNTEVIASYNQLSSFRQPKVVRIVVNLIEDHKNPTVT	371
QY	311	EEQIRLOHEALNEAFSRYNISWQLSVHOVHNSTLRHRVVLVNCPEPSKIGNDHCDPECEHP	370
Db	372	REQYDFQHHQLAFAFKQYINISWELDYLEVSNSSLRRLLILANCDISKIGDENCDEPCNHT	431
QY	371	LTGYDGGDCR--LOGRCYSWNRBDGLCHVECNMMLNDFDDGDCDPOVADYRKTCFDPDSP	429
Db	432	LTGHDEGDCRHLRHPAFVKQKHNGVCDMDCNYERFNFDEGCECDEITNTVQTCEFPDSP	491
QY	430	KRAYMSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWPDVDAVTHLGGIVLSPAYY	489
Db	492	HRAVLDVNELKNILKLDGSTHINIFPAKSSSEELAGAVATWPDWKEALMHLGGIVLNPSEY	551
QY	490	GMPGHTDTMIHEGVHVLGLYHVPKGVSERESCNDPCKETVPMSMETGDLCACTAPTPKSEL	549
Db	552	GMPGHTHTMIHEIGHSLGLYHVRGISEIQSCSDPCMETEFSFETGDLCDNTNPAPKHKS	611
QY	550	CREPEPTSDTCGFTRPGAPFTNYMSTYDNDCTDNFTPNQVARMHCYLDLVYQQWTESRK	609
Db	612	CGDPRGNDTCGFHSFENTPNNNFMSYADDDCTDSFTPNQVARMHCYLDLVYQGWQPSRK	671
QY	610	PTPIPIPMVIGQTNKSLTIHMLPRISGVVYDRASGSLCGACTEDGTFRQYVHTASSRRV	669
Db	672	PAPVALAPQVLGHTTDSVTLMEFPRIIDGHFFERELGSACHLCLBGRLLVQYASNASSPMP	731
QY	670	CDSSGYWTPBEAVGPDPVDQPCPEBSLQAMSPFEVHLYHMMNTVPCP--TEGCSLELLFQHPV	728
Db	732	CSPSGHWSPREAEGHPDVEQPCCKSSVRTWSPNSAVNPHVTVPACPEPQGCYLELEFLYPL	791
QY	729	QADTLTLMTV--SFFMESSQVLEFDTIELLENKESVHLGPLDTFCIPLTIKL--HVDGKVS	785

Db	792	VPESLTIWTVFVSTWDSSGAVNDIKLAVSGKNISLGPQNVFCDDVPLTIRLMDVGEEVY	851
Qy	786	GKVYVTPDERIEIDAALLTSQPSPLCSGCRPVRYQVLBDPPFASGLPVVYVTHSHRKFTD	845
Db	852	GIQIYTLDBEHLIDAAMLTSTADTPLCLQCKPLKYKVRDPPLOMDVASIL-HLNKKFVD	910
Qy	846	VEVTPGQMYQVLAELAAGGELGEASPLNHIHGAPYCGDGKVSERLGEBCDDGLVSGDG	905
Db	911	MDLNLGSVYQYVWVITISGTESESPSPAVTYIHGRGYCGDGI IQDKQGEQCDMMNKINGDG	970
Qy	906	CSKVCELEEGFNCVGEPSLCYMYEGDGI CEPPERKTSIVDCGIYTPKGYLDOMATRAYSS	965
Db	971	CSLFCRQEVSNFCIDEPSRCYFHGDGVCBEFEQKTSIKDCGVYTPQGFLDQMASNASVS	1030
Qy	966	HEDKKKCPVSLVTGER-HSLICTSYHPDLPHNRPLTGWFPVCVASENETQDDRSSEQPEGSL	1024
Db	1031	HQD-QQCPGWNIIQOPASQVCKTKVIDLSEGISQHMVPC TISYPYSQ-----	1078
Qy	1025	KKEDEWMLKVCFNRPGEARAIFFLTTDGLVPGEHQPTVTLYLTDRGSHNSLGTYGLS	1084
Db	1079	LAQTTFWLRAVFSQPMVAAYIVHLVTDGTYGQKQETISVOLDBTKDQSHDLGLHVL	1138
Qy	1085	COHNPLIINVTHQONVLFHHTTSVLLNFSSPRVGISAVALTRTSSRIGLSAPNSCISEDEG	1144
Db	1139	CRNNPLIIPVYHDL SQFYHSQAVRSFSSPLVAISGVALRSFDNFPVTLSSC-QRGET	1197
Qy	1145	QNHQGSCTIHRPCGKQDSCPSILLDHADVNCTSI---GPLMKCAITCQRPALQASS	1200
Db	1198	YSPAQSCVHFACEKTD-CPELAVENAS-LNCSSTRYHG--AQCTVSCRTGYVLQIRR	1252
Qy	1201	GQYIRPMQ--KEILLTSSSGHMDONVSCLPVDCGVPDPBSLVNYANFSCSEGTFLKRCST	1258
Db	1253	DDELIKSQTGPSVTVCTCEGKNKQVACEPVDCSI PDHHQVYAASFSCPEGITFGSQCSF	1312
Qy	1259	SCVPPAKLOGISPLWLTCLLEDGLMSLPEVYCKLECDAPPIILNANLLPHCLQDNHDVGTI	1318
Db	1313	QCRHPAQOLKGNNSLLTCMEDGLMSPEALCELMCLAPBPVPNADLQOTARCARENKHVGSF	1372
Qy	1319	CKYECKPGYVVAESAEGKVRANKLKIQCLEGGIWEQSGCIPVCEPPRPVFEQNYECTNG	1378
Db	1373	CKYKCKPGHYVPGSSR-KSKKRAFKTQCTQDGSWQEGACVPVTCDP RP PKFHGLYQCTNG	1431
Qy	1379	FSLDSQCVLNC-----NOERKCLPILCTKEGLWTOEFLCENLQGECPRPSPSLNS-VEX	1432
Db	1432	FQFNSECRICKEDSDASQGLGSNVIHCRKDGTMNGSFHVQEMQGC-SVENELNSNLKL	1490
Qy	1433	KCEQGYGIGAVCSPLCVIPSPDPVMLPENITADTLEHMEBPVKQVSI VCTGERQWHPDPV	1492
Db	1491	QCPDGYAIGSECATSCLDHNSESIILPMNVTVRDI PHMLNPTFRVERVVC TAGIKWYPHPA	1550
Qy	1493	LVMCIQSCEPFOADGWCDTTINBRAYCHYDGDCCSSTISSKKVIPFAADCDLD-ECTCRD	1551
Db	1551	LHICVKGCEBFMGDN YCDAINNRAFCNYDGDCCSTYVTKKVTPFPMSCDLQGDCA CRD	1610
Qy	1552	PKAEN 1557	
Db	1611	POAQEH 1616	

RESULT 13
US-10-887-229A-8
; Sequence 8, Application US/10887229A
; Publication No. US20050148509A1
; GENERAL INFORMATION:
; APPLICANT: DAKE, BRIAN
; APPLICANT: BOOTH, BARBARA
; APPLICANT: BOES, MARY
; APPLICANT: BAR, ROBERT S.
; TITLE OF INVENTION: BINDING PROTEINS AS CHEMOTHERAPY
; FILE REFERENCE: IOWA:049US
; CURRENT APPLICATION NUMBER: US/10/887,229A
; CURRENT FILING DATE: 2004-07-08

; PRIOR APPLICATION NUMBER: 60/538,000
 ; PRIOR FILING DATE: 2004-01-21
 ; PRIOR APPLICATION NUMBER: 60/485,846
 ; PRIOR FILING DATE: 2003-07-09
 ; NUMBER OF SEQ ID NOS: 16
 ; SOFTWARE: Patent Ver. 2.1
 ; SEQ ID NO 8
 ; LENGTH: 1627
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-887-229A-8

Query Match 45.5%; Score 3916.5; DB 18; Length 1627;
 Best Local Similarity 45.8%; Pred. No. 8.8e-297;
 Matches 718; Conservative 296; Mismatches 499; Indels 53; Gaps 25;

QY 16 REAETNSQVGLP--ILYFSGRRL-LLRPEVLAIPREAFTVEAWKPEGQNNPAIT 72
 DB 80 REARGATEERPPSRALYFSGRGEQLRVLRADL--ELPRDAFTLQVWLRABEGQSRPAVI 137
 QY 73 AGVPDNCSTVSDKGNALGIRSGDKGRDARFFSLCTDRVKKATILISHRYQPTWT 132
 DB 138 TGLYDKCSYISRDRGVVGIHTISDQDNKDPRIFFSLKTDRAQVTTINARSYLPQWV 197
 QY 133 HVAATYDGRHMAIYDGTQVAVASSLDQSGPLNSPRMASCRSLLLGDSSEGHYFRGLGT 192
 DB 198 YLAATYDQFMKLYNGAQVATSQVGGIFSPLTQCKVLMLG--SALNHYRGYIEH 255
 QY 193 LVFWSTALPQSHFQSSQHSSEEBATDLVLTASFEPVNTWVPFRDEKYPRLV--LQG 250
 DB 256 FSLWKVARTQREILSDMETHGAHTALPQLLQENWNVKHAWSPMKDGSSPKVEFSNAG 315
 QY 251 FEPEPEILSPLOPPLCGQTVCDNVELISQYNGWPLRGEKVIRYQVNICDDEGLNPIVS 310
 DB 316 FLID---TSLEPPLCGQTLCDNTEVIASYNQLSFRQPKVVRVYVNLVEDDHKNPTVT 371
 QY 311 EEQIRLOHEALNEAFSRYNISWQLSVHQVHNSTLRHVVLVNCEPSKIGNHCDPECEHP 370
 DB 372 REQVDFQHOLAFAFKQYNISWELDLVENSLSLRLLILANCDISKIGENDCEPCNHT 431
 QY 371 LTGYDGGDCR--LQGRCYSMNRDGLCHVECNMNLNDFDDGCCDPQVADVRKTCFDPDSP 429
 DB 432 LTGHDDGDCRHLRHPAFVKKQHNVCMDMCNBERFNDGECDDPEITNVYTQTCFDPDSP 491
 QY 430 KRAYMSVKELKALQLNSTHFLNIYFASSVREDLAGAATWPMWDXAVTHLGGIVLSPAY 489
 DB 492 HRAYLDVNELKNILKLDGSTHLNIFFAKSSSEELAGVATWPMWDXEALMHLGIVLNPSTFY 551
 QY 490 GMPGHTDTMIHEVHVLGLYHVFKEVSERESNDPCKETVPSMETGDLCADTAPTPKSEL 549
 DB 552 GMPGHTDTMIHEIGHSLGLYHVFGRGISEIGSCSDPCMETEPTSFETGDLCDNTNPAKHS 611
 QY 550 CREPEPTSDTCGFTIRPGAFPTNYMSYTDNCTNFTPNQVARMHCYLDLYQQWTESRK 609
 DB 612 CGDPGPGNDTCGFHSFNTPYNNFMSYADDDCTDSTPNQVARMHCYLDLYQQWQPSRK 671
 QY 610 PTPIRIPMVTIGQTNKSLTIHMLPISGVVYDRASGSLCGACTEDGTFRQYVHTASSRV 669
 DB 672 PAPVALAPQVLGHTTDSVTLWFPPIIDGHFERELGSACHLCLEGRILVOYASNASSPMP 731
 QY 670 CDSGCVTPPEAVGPPVDVQCEPSLQAWSPEVHLHYHMMTVPCP--TEGCSLELLFQHPV 728
 DB 732 CSPSGHWSPREAGHPDVEQCKSSVRITWSPNSAVNPHITVPACPEPQGVLELEFLYPL 791
 QY 729 QADTLTLMVT--SFMESSQVLFDTIELLENKESVHLGPLDTFCDIPITIKL--HVDGKVS 785
 DB 792 VPESLTIWTFVSTWDSGAVNDIKLAVSGKNISLGPQNVFCDVPLTIRLMDVGBEVY 851
 QY 786 GVKVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPRFASGLPVVYTHSHRKFTD 845
 DB 852 GIQIYTLDEHLEIDAAMLTSTADTPLCQCKPLKVVVRDPRLOMDVASIL--HLNRKFVD 910
 QY 846 VEVTGQWYQVLAAGGELGEASPLNHTHGAFCYCGDGKVSERLGEEDDGDLDVSGDG 905

DB 911 MDLNLGSVYQYWTITISGTEESESPSPAVTYIHGRGYCGDGIITQKQGEQCDMNKINGDG 970
 QY 906 CSKVCLEBEGFNCVGEPSLCYMEGDDICEPERKTSIVDCGIYTPKGYLDQMATRAYSS 965
 DB 971 CSLFCRQEVSFNCIDEPSRCYFHDGDGVCEEFQKTSIKDCGVYTPQGLDQWASNASVS 1030
 QY 966 HEDKKCPVSLVTGER--HSLICTSYHFDLPNHRPLTGWFPVAVASENETQDDRSQPEGSL 1024
 DB 1031 HQD-QQCPGWVILGQPAASQVCRKVIDLSEGISQHAMYPCTISYPYSQ----- 1078
 QY 1025 KKEDEVMLKVCFNRPGEARAFIFLTTDGLVPGEHQPTVTLYLTDVRSNHSIGYGLS 1084
 DB 1079 LAQTFWLRAVFSQPMVAALVIVHLVTDGTYGDDQKQETISVQLDPTKQSHDLGLHVS 1138
 QY 1085 QAHNPLIINVTHQNVLFHHTSVLLNFSRPVGISAVALRTSSRIGLSAPSNCSISEDEG 1144
 DB 1139 CRNPLIIPVHDISQPFYHSQAVRVSSSPLVAISGVALRSFDNFPVTISSC-QRGET 1197
 QY 1145 QNHQSCSIHRPCGKQDSCPSLLLDHADVNCSTI---GRLMKCAITQGRFALQASS 1200
 DB 1198 YSPAQSQVHFACETKD--CELAVENAS--LNCSSSDRYHG---AQCTVSCRTGYVLQIRR 1252
 QY 1201 GQYIRPMQ--KEILLTSSSGHWQDQVSCLPYDCGVPDPSPSLVNYANFSCSEGTFLKRCST 1258
 DB 1253 DDELKISQTPSVYVTCTEGKWNKQVACEPDCSIPDHQVYVAAFSCEGTTFGSQCSF 1312
 QY 1259 SCVPPAKLOGLSPWLTCLLEDGLWSLPEVYCKLECDAPRIILNANLLPHCLQDNHVGTI 1318
 DB 1313 QCRHPAQLKGNNSLITCMEDGLMSFPEALCELMCLAPRPVPMADLQIARCRNKHKVGVSF 1372
 QY 1319 CKYECKPGYVVAESAEGKVRNKLKIQCLEGGIWEQSCIPVCEPPRPVREGMYECTNG 1378
 DB 1373 CKYCKPGYHVPSSSR--KSKRAFKTQCTQDQSGWQEGACVPVTCDDPPPKHGLYQCTNG 1431
 QY 1379 FSLDSQCVLNC-----NQEREKLPILCTKEGIWTOEFKLCENLOGECRPPSELS--VEY 1432
 DB 1432 FQFNSECRKICEDSDASQGLGSNVIHCRKQGTWNGSFHVCQEMOGQC--SVNELNSNLKL 1490
 QY 1433 KCEQGYGAVCSPLCVIPSPDPVMLPENITADTLEHMMEPVKQSIIVCTGRROWHPDPV 1492
 DB 1491 QCPDGYAIGSECATSLDHNSESIILPMNYTRDI PHMLNPTREVERVCTAGLKMYRHPA 1550
 QY 1493 LVHCIQSCPEPQADGWCDTINNRAYCHYDGGCCSSTLSSKKVIFPADCDLD--ECTCRD 1551
 DB 1551 LIHCVKGCEPFGMDNYCDAINNRAFVCNYDGGDCCTSTVTKKVTFFPMSCDLQGDCACRD 1610
 QY 1552 PKAEN 1557
 DB 1611 POAQEH 1616

RESULT 14
 US-10-783-311-2
 ; Sequence 2, Application US/10783311
 ; Publication No. US20050009136A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Nixon, Andrew
 ; APPLICANT: Hogan, Shannon
 ; TITLE OF INVENTION: PAPER-A LIGANDS
 ; FILE REFERENCE: 10280-059001
 ; CURRENT APPLICATION NUMBER: US/10/783,311
 ; PRIOR FILING DATE: 2004-02-19
 ; PRIOR APPLICATION NUMBER: US 60/448,515
 ; NUMBER OF SEQ ID NOS: 394
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2
 ; LENGTH: 1547
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-783-311-2


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Query Match      45.5%; Score 3914.5; DB 17; Length 1547;
Best Local Similarity 46.1%; Pred. No. 1.2e-296;
Matches 714; Conservative 295; Mismatches 490; Indels 51; Gaps 24;

QY 30 LYFSGRRL-LLRPEVLAIPIREAFTEAWKPEGGONNPALIAGEDNCSHTVSDKGW 88
   ||||| : : : : : ||||| : : : : : ||||| : : : : : ||||| : : : : :
Db 16 LYFSGRGEQLRVLRADL--ELPRDAFTLQVWLRAGGORSPAVITGLYDKCSYISRDGW 73

QY 89 ALGIRSGKDKRDAARFFFSLCTDRVKKATILISHRYQPGTWTHTVAATYDGRHMLAYVD 148
   :|| : : : : ||||| : : : : : ||||| : : : : : ||||| : : : : :
Db 74 VVGIIHTISDQNKDPRYFSLKTRARQVTTINARSYLPGQWVYLAATYDGFMKLYVN 133

QY 149 GTQVASSLDQSGPLNSPFMASCRSLLGGDSSEDDGHYFRGHLGTLVFWSTALPQSHFQHS 208
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Db 134 GAQVATSGEYVGIFSPLTQCKVLMLG--SALNHNRYGRIEHSIMKVAARTQREILSD 191

QY 209 SOHSSGEEATDVLVTASFEPVNTWVPRDEKYPRLV--LQGFPEPEILSPLOPPLC 266
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Db 192 METHGAHTALPOLLLQENWDNVKHAWSPMKDSSPKVEFSNAHGFLD---TSLEPPLC 247

QY 267 GQTVCDNVELISOYNGWYPLRGEKVIROYVNICDDEGLNPVSEEQIRLQHEALNEAFS 326
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QY 327 RYNISWQLSVHOVHNSTLRHRVVLVNCESPKIGNDHCDPECEHPLTGYDGDGR-LQGRC 385
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Db 308 QYNISWELDVLEVSNSSLRRLLILANCDISKIGDENCDBECNHTLTGHGDCDRLRHRA 367

QY 386 YSMNRDGLCHVECNMMLNDFDDGCCDPOVADVKTCTCFDPDSPKRAYMSKELKEALQL 445
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Db 368 FVKQKHNGVCDMDCNYERFNFDGGECCDPEITNVQTCTFPDPSPHRAYLDVNELKNILKL 427

QY 446 NSTHFLNIYFASVREDLAGAATWMDKDAVTHLGGIVLSPAYYGMPTHTMIHEGVH 505
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Db 428 DGSTHLNIFAKSSEELAGVATWPDKEALMHLGGIVLNPSFYGMPTHTMIHEIGHS 487

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QY 566 PGAPFTNMSYTDNCTDNFTPNQVARMHCYLDLVYQWTESRKPTPIRPMVIGQTNK 625
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QY 743 ESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKL-HVDGKVSQVKVYTFDERIEIDAA 801
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QY 1215 CSSGHWQNVSCLPVDCGVPDPSLVNYANFSCSEGTFLKRCSTSCVPPAKLOGLSPWLT 1274
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QY 1275 CLEDGLMSLPEVYCKLECDAPPIILANLILPHCLQDNHDVGTICKYECKPGYVAESA 1334
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QY 1335 GKVRNKLKIQCLEGWIWEGSCIPVYCEPPRPVFEGMYECTNGFSLDSQCVLNC----- 1389
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QY 1509 CDTINRAYCHYDGGDCSSSTLSKKVLPAA DCDLD-ECTCRPKAEEN 1557
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RESULT 15
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; Sequence 1403, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 1403
; LENGTH: 1420
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-741-600-1403
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Best Local Similarity 45.9%; Pred. No. 3.1e-272;
Matches 659; Conservative 268; Mismatches 461; Indels 48; Gaps 22;

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QY 203 SHFQSSQHSGEEATDVLVTASFEPVNTWVPRDEKYPRLV--LQGFPEPEILSP 260
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Db 59 REILSDMETHGAHTALPOLLLQENWDNVKHAWSPMKDSSPKVEFSNAHGFLD---TS 114

QY 261 LQPLCGQTVCDNVELISOYNGWYPLRGEKVIROYVNICDDEGLNPVSEEQIRLQHEA 320
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Db 115 LEPPLCGQTLCDNTEVIASYNQLSSFROPKVVRVYVNLXEDHKNPVTYREQVDFOHQ 174

QY 321 LNEAFSRYNISWQLSVHOVHNSTLRHRVVLVNCESPKIGNDHCDPECEHPLTGYDGDGR 380
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Db 175 LAEAFKQYNIWEELVLEVSNSSLRRLLILANDISKIGDENCDECNHTLTGHDGDCR 234
QY 381 -LQRCYSWNRDGLCHVECNMNLNDDCCDQVADVKTCTCFDPSPKRAYMSVKEL 439
Db 235 HLHRAFAVKKQHNVCMDNCYERFNFPGCECCDEITNTQTCTFDPSPHAYLIDVNEI 294
QY 440 KEALQLNSTHFLNTYFASSVREDLAGAATWMDKDAVTHLGGIVLSPAYYGMGHTDTMI 499
Db 295 KNILKLDGSTHLNIFPAKSSEEBLAGVATWMDKDALMHLGGIVLNPSFYGMGHTHTMI 354
QY 500 HEVGHVLGLYHVFKVSERESNCPCKETVPSMETGDLCADTAPTPKSELCPHEPTSDT 559
Db 355 HEIGHSLGLYHVFKGISEIQSCSDPCMETEPSFETGDLNDTNPAKHKSCGDPGPNdT 414
QY 560 CGFTRPGAPFTNYSYTDNCTDNFTPNQVARMHCYLDLVYQWTESRKPTPIPIPMV 619
Db 415 CGFHSFNTPNYFMYSYADDCTDSTFTPNQVARMHCYLDLVYQWQPSRKPAVALAPQV 474
QY 620 IGQTNKSLTIHMLPISGVVYDRASGLCGACTEDGTFRQYVHTASSRRVCDSSGYWTPE 679
Db 475 LGHTDSVTLWEFPRPIDGHFFERELGSACHLCLEGRILVQYASNASSPMPCSPSGHMSPR 534
QY 680 EAVGPRPDVQPCPSLOAMSPEVHLYHMMNTVPCP-TEGCSLELLFQHPVQADTLTLMWT 738
Db 535 EABGHPDVEQPCCKSVRTWSPNSAVNPHTVPPACPEBQGCYLELEFLYPLVPESLTIWT 594
QY 739 --SFFMESSQVLFTEILLENKESVHLGFLDFCDIPLTIKL-HVDKVGSKVYTFDER 795
Db 595 FVSTDWSSGAVNDIKLAVSGKINSLGPQNVFCDVPLTIRLMDVGEVYGIQIYTLDEH 654
QY 796 IEIDALLTSQPHSPLCSGCRPVRYQVLRDPPASGLPVVVTSHRKFTDVEVTPGQMYQ 855
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QY 856 YOVLAEGGELGEASBPLNIHGAHYCGDGKVSERLGEBCDDGDLVSGDGSKYCELEBEG 915
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QY 916 FNCVGEPSLCYMEGDCICEPERKTSIVDCGYTPKGYLDQWATRAYSHEDKKCPVS 975
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Db 833 VIIGQPAASQVCRKYIDLSEGISQHAMYPCTISYPYSQ-----LAQTFWLR 881
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Db 882 YFSQPMVAALVIAHLVTDGTYGQKQETISQVLDLTKDQSHDLGLHVLSCRNNPLIIPV 941
QY 1095 THQNVLFHHTTSVLNFSsprvgISAVALTSSRIGLSAPSNCSISEGQNHQOSCIH 1154
Db 942 VHDLSQPFYHSQAVRVVSFSSPLVAISGVALRFDNFDPTVLTSSC-QRGETYSPAEOCVH 1000
QY 1155 RPCGKODSCPSLLDHDVNTCTSI---GPGMLKCAITCQRGFALQASSGQYIRPMQ-- 1208
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QY 1209 KEILLTSSGHWQNVSCLPVDCGVPDPSLVYANVANSFCSSEGTKFLKRCISCVPPAKLOG 1268
Db 1056 PSVTVTCTEGKWNKQVACEPVDCSIPIHQAASFSFCEGTTFGSQCSFQCRHAPOLKG 1115
QY 1269 LSPWLTCLLEDGLNSLPEVYCKLECDAPPIILANLLEPHCLQDNHNDVGTICKYECKPGY 1328
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QY 1329 VAESAEGKVRNKLKIQCLEGGIWEQSCIPVYCEPPPVFEGMYECTNGFSLDSQCVLN 1388
Db 1176 VPGSSR-KSKKRAFKTQCTQDGSWQGACVPTCDPBPKFHGLYQCTNGFQFNSCRIRK 1234
QY 1389 C-----NOBREKLPILCTKEGLTQEFKLCENLOGECPRPSELNS-VEYKCEQGYGIGA 1442
Db 1235 CBDSASQGLGSNVIHCRKDGWTNGSFHVCGEMQGC-SVPNELNSNLKLOCPDGYAIGS 1293

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QY 1503 FOADGWCDTTINBRAYCHVDGDCDCCSSTLSKKYIPFAADCDD-ECTCRDPKAEEN 1557
Db 1354 FMGDNYCDAINNRAFCNYDGDGDCCTSTVKTCTKVTFFPMSCDLQGDACACRDPQAQEH 1409

Search completed: August 25, 2005, 22:29:44
Job time : 121.721 secs

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OM protein - protein search, using sw model

Run on: August 25, 2005, 22:20:46 ; Search time 30 Seconds
(without alignments)
3876.775 Million cell updates/sec

Title: US-09-983-025B-2_COPY_234_1791
Perfect score: 1558
Sequence: 1 SPPEESNONGEGSYREAE...AADCDLDECTCRDPAENQ 1558

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 513545 seqs, 74649064 residues

Word size : 5

Total number of hits satisfying chosen parameters: 50545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1303	83.6	1791	4	US-09-827-998-3 Sequence 3, App11
2	1299	83.4	1770	4	US-09-827-998-10 Sequence 10, App1
3	574	36.8	1385	4	US-09-827-998-16 Sequence 16, App1
4	11	0.7	20	4	US-09-827-998-18 Sequence 18, App1
5	9	0.6	211	4	US-09-902-540-13412 Sequence 13412, A
6	8	0.5	47	4	US-09-079-030-90 Sequence 90, App1
7	8	0.5	105	4	US-09-732-210-781 Sequence 781, App
8	8	0.5	382	4	US-09-949-016-11427 Sequence 11427, A
9	8	0.5	400	4	US-09-252-991A-31900 Sequence 31900, A
10	8	0.5	494	4	US-09-134-000C-4291 Sequence 4291, App
11	8	0.5	592	4	US-09-536-059-3 Sequence 3, App11
12	8	0.5	4536	4	US-09-180-422B-27 Sequence 27, App1
13	8	0.5	4536	4	US-09-079-030-1 Sequence 1, App11
14	8	0.5	4563	4	US-09-108-006C-1 Sequence 842, App
15	8	0.5	4563	4	US-09-538-092-842 Sequence 4, App11
16	7	0.4	18	3	US-08-920-610-4 Sequence 2, App11
17	7	0.4	18	3	US-09-140-149-2 Sequence 4, App11
18	7	0.4	18	3	US-08-672-213-4 Sequence 4, App11
19	7	0.4	18	3	US-08-973-131-31 Sequence 31, App1
20	7	0.4	18	4	US-09-615-917-2 Sequence 2, App11
21	7	0.4	52	4	US-09-513-999C-7681 Sequence 7681, App
22	7	0.4	61	4	US-09-540-236-2834 Sequence 2834, App
23	7	0.4	92	4	US-09-107-532A-4945 Sequence 4945, App
24	7	0.4	103	4	US-09-732-210-762 Sequence 762, App
25	7	0.4	103	4	US-09-732-210-763 Sequence 763, App
26	7	0.4	103	4	US-09-732-210-765 Sequence 765, App
27	7	0.4	103	4	US-09-732-210-766 Sequence 766, App

28	7	0.4	104	4	US-09-732-210-761	Sequence 761, App
29	7	0.4	104	4	US-09-711-164-323	Sequence 323, App
30	7	0.4	104	4	US-09-492-709A-321	Sequence 321, App
31	7	0.4	107	4	US-09-370-838-113	Sequence 113, App
32	7	0.4	107	4	US-09-854-133-113	Sequence 113, App
33	7	0.4	108	4	US-09-252-991A-21351	Sequence 21351, A
34	7	0.4	113	4	US-09-732-210-774	Sequence 774, App
35	7	0.4	115	4	US-09-732-210-780	Sequence 780, App
36	7	0.4	116	4	US-09-543-681A-7205	Sequence 7205, App
37	7	0.4	118	4	US-09-489-039A-10900	Sequence 10900, A
38	7	0.4	119	4	US-09-270-767-56640	Sequence 56640, A
39	7	0.4	120	4	US-09-248-796A-27858	Sequence 27858, A
40	7	0.4	120	4	US-09-902-540-11618	Sequence 11618, A
41	7	0.4	135	4	US-09-270-767-40611	Sequence 40611, A
42	7	0.4	135	4	US-09-270-767-55827	Sequence 55827, A
43	7	0.4	136	4	US-09-710-279-1852	Sequence 1852, App
44	7	0.4	141	4	US-09-949-016-8944	Sequence 8944, App
45	7	0.4	144	4	US-09-252-991A-16576	Sequence 16576, A

ALIGNMENTS

RESULT 1									
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; Sequence 3, Application US/09827998									
; Patent No. 6656700									
; GENERAL INFORMATION:									
; APPLICANT: Gu, Yizhong									
; APPLICANT: Shannon, Mark									
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E									
; FILE REFERENCE: MDNORF-8									
; CURRENT APPLICATION NUMBER: US/09/827, 998									
; PRIOR FILING DATE: 2001-04-06									
; PRIOR APPLICATION NUMBER: US 60/207, 456									
; PRIOR FILING DATE: 2000-05-26									
; PRIOR APPLICATION NUMBER: US 60/236, 359									
; PRIOR FILING DATE: 2000-09-27									
; NUMBER OF SEQ ID NOS: 1881									
; SOFTWARE: Acomica Sequence Listing Engine									
; Patent No. 6656700									
; SEQ ID NO 3									
; LENGTH: 1791									
; TYPE: PRT									
; ORGANISM: Homo sapiens									
US-09-827-998-3									
Query Match									
Best local Similarity 99.9%; Pred. No. 0;									
Matches 1503; Conservative 0; Mismatches 2; Indels 0; Gaps 0;									
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DB	294	KPEGGQNPAAIAGV	FDNCSTVSDKGWALGIRSGKDKGRDARFFSLCTDRVK	KATIL	353				
QY	121	ISHSRYPGTWTHVA	ATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMA	SCRSL	180				
DB	354	ISHSRYPGTWTHVA	ATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMA	SCRSL	413				
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DB	414	EDGHYFRHGLT	LVFWSTALPQSHFOHSSQHSGBEATDVL	TASFEPVNT	473				
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DB	474	KYPRLEVLOGFE	PEPEILSPLOPLCGQTVCDNELISQYNGVWELRGEK	VIRYQVNIC	533				
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Db	594	DHCDPECEH	PLTGYDGGDCRLQGRCYSWNRRDGLCHVECNMNLNDFDDGCCDPQVADVR	653
QY	421	KTCFDPDS	PKRAYMSVKELKEALQLNSTHFLNTYFASSVREDLAGAATWPDKDAVTHLG	480
Db	654	KTCFDPDS	PKRAYMSVKELKEALQLNSTHFLNTYFASSVREDLAGAATWPDKDAVTHLG	713
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Db	714	GIVLSPAYY	GMPGHTDTMIHEVHVLGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD	773
QY	541	TAPTPKSEL	CREPEPTSDTCGFTRPGARFTNYMSYTDNCTDNFTPNQVARMHCYLDLV	600
Db	774	TAPTPKSEL	CREPEPTSDTCGFTRPGARFTNYMSYTDNCTDNFTPNQVARMHCYLDLV	833
QY	601	YQWTESRK	PTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLCGACTEDGTFRQY	660
Db	834	YQWTESRK	PTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLCGACTEDGTFRQY	893
QY	661	VHTASSRR	VCDSGWTPEEAVGPPVDQPCBPSLQAWSPEVHLYHNMNTVPCPTGCSL	720
Db	894	VHTASSRR	VCDSGWTPEEAVGPPVDQPCBPSLQAWSPEVHLYHNMNTVPCPTGCSL	953
QY	721	ELLFQHPV	QADTLTLWTSFFMESSQVLFDTILLNKESVHLGELDTFCDIPLTIKLHV	780
Db	954	ELLFQHPV	QADTLTLWTSFFMESSQVLFDTILLNKESVHLGELDTFCDIPLTIKLHV	1013
QY	781	DGKVS	GVKVTYFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPRASGLPVVTHSH	840
Db	1014	DGKVS	GVKVTYFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPRASGLPVVTHSH	1073
QY	841	RKFTDVE	VTPEGMYQYQVLAEAGGELGEASPPINHIGAPYCGDGKVSERLGEECDGDL	900
Db	1074	RKFTDVE	VTPEGMYQYQVLAEAGGELGEASPPINHIGAPYCGDGKVSERLGEECDGDL	1133
QY	901	VSGDGS	CKVCELEEGFNCVGEPSLCYMEEGDGICEPFEKTSIVDCGIYTPKGYLDQWAT	960
Db	1134	VSGDGS	CKVCELEEGFNCVGEPSLCYMEEGDGICEPFEKTSIVDCGIYTPKGYLDQWAT	1193
QY	961	RAYSSHED	KKKCPVSLVTGERPHSLICTSYHPDLPNHRPLTGWFPVASENETODDRSEOP	1020
Db	1194	RAYSSHED	KKKCPVSLVTGERPHSLICTSYHPDLPNHRPLTGWFPVASENETODDRSEOP	1253
QY	1021	EGSLKKE	DEWMLKVCFNRPGEARAFIFLITDGLVPGEHQOPTVTLYLTDVRGSNHS LGT	1080
Db	1254	EGSLKKE	DEWMLKVCFNRPGEARAFIFLITDGLVPGEHQOPTVTLYLTDVRGSNHS LGT	1313
QY	1081	YGLSCQH	NPLIINTVTHQNVLFHHTTSVLNLFSSPRVGISAVALRTSSRIGLSAPSN CIS	1140
Db	1314	YGLSCQH	NPLIINTVTHQNVLFHHTTSVLNLFSSPRVGISAVALRTSSRIGLSAPSN CIS	1373
QY	1141	EDEGQN	HQGSCIHRCGKODSCPSLLLDHADVNVCTSIGPGLMKCAITTCQRGFALQASS	1200
Db	1374	EDEGQN	HQGSCIHRCGKODSCPSLLLDHADVNVCTSIGPGLMKCAITTCQRGFALQASS	1433
QY	1201	GQYIRPM	QKEILLTCCSGHMDQNSCLPYDQGVPPDPSLVNRYANFSGSGRTKFLKRC SISC	1260
Db	1434	GQYIRPM	QKEILLTCCSGHMDQNSCLPYDQGVPPDPSLVNRYANFSGSGRTKFLKRC SISC	1493
QY	1261	VPPAKL	QGLSPWLTCLLEDGLMSLPVNYCYKLECDAPRIILNANLLPHCLQDNHDVGTICK	1320
Db	1494	VPPAKL	QGLSPWLTCLLEDGLMSLPVNYCYKLECDAPRIILNANLLPHCLQDNHDVGTICK	1553
QY	1321	YECKP	GYVAESAEGKVRNKLKIQCLEGGIWEQSSCIPVVCBPPPPVHEGMYECTNGFS	1380
Db	1554	YECKP	GYVAESAEGKVRNKLKIQCLEGGIWEQSSCIPVVCBPPPPVHEGMYECTNGFS	1613
QY	1381	LDSQC	VLNQCEREKLPILCTKEGLWTOEFKLCENLQGECPPPPSEINSVEYKCEQGYGI	1440
Db	1614	LDSQC	VLNQCEREKLPILCTKEGLWTOEFKLCENLQGECPPPPSEINSVEYKCEQGYGI	1673

QY	1441	GAVCSPL	CVIPSPDPVMLPENITADTLLEHMEPVKVQSVCTGRROWHPDPVLVHCIO SC	1500
Db	1674	GAVCSPL	CVIPSPDPVMLPENITADTLLEHMEPVKVQSVCTGRROWHPDPVLVHCIO SC	1733
QY	1501	EPFQA	1505	
Db	1734	EPFQA	1738	
RESULT 2				
US-09-827-998-10				
; Sequence 10, Application US/09827998				
; Patent No. 6656700				
; GENERAL INFORMATION:				
; APPLICANT: Gu, Yizhong				
; APPLICANT: Shannon, Mark				
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E				
; FILE REFERENCE: MDWORF-8				
; CURRENT APPLICATION NUMBER: US/09/827, 998				
; CURRENT FILING DATE: 2001-04-06				
; PRIOR APPLICATION NUMBER: US 60/207, 456				
; PRIOR FILING DATE: 2000-05-26				
; PRIOR APPLICATION NUMBER: US 60/236, 359				
; PRIOR FILING DATE: 2000-09-27				
; NUMBER OF SEQ ID NOS: 1881				
; SOFTWARE: Aecmica Sequence Listing Engine				
; Patent No. 6656700				
; SEQ ID NO 10				
; LENGTH: 1770				
; TYPE: PRT				
; ORGANISM: Homo sapiens				
US-09-827-998-10				
Query Match				
Best Local Similarity 83.4%; Score 1299; DB 4; Length 1770;				
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;				
QY	1	SPPEESNQ	NGEGSYREAEFTFNSQVGLPILYFSGRRELLRBEVLAEIPREAFVTEAWV	60
Db	234	SPPEESNQ	NGEGSYREAEFTFNSQVGLPILYFSGRRELLRBEVLAEIPREAFVTEAWV	293
QY	61	KPEGGQNN	PAIIAGVFDCNSHTVSDKGWALGIRSGDKGKRDARFFFSLCTDRVKKATIL	120
Db	294	KPEGGQNN	PAIIAGVFDCNSHTVSDKGWALGIRSGDKGKRDARFFFSLCTDRVKKATIL	353
QY	121	ISHSRQ	PGTWTHTVAATYDGRHMLYVDGTQVASSLDQSGPLNSPFMASCRLLLGGDS	180
Db	354	ISHSRQ	PGTWTHTVAATYDGRHMLYVDGTQVASSLDQSGPLNSPFMASCRLLLGGDS	413
QY	181	EDGHYFR	GHGLGTLVFWSTALPQSHFQHSQHSSEEBEATDVLVTASFEPVNTIEWVFRDE	240
Db	414	EDGHYFR	GHGLGTLVFWSTALPQSHFQHSQHSSEEBEATDVLVTASFEPVNTIEWVFRDE	473
QY	241	KYPRLE	VLYQFEPEPEILSPLOPBLCGQTVCDNVELISQYNGYWPRLGEEKVIRYQVNNIC	300
Db	474	KYPRLE	VLYQFEPEPEILSPLOPBLCGQTVCDNVELISQYNGYWPRLGEEKVIRYQVNNIC	533
QY	301	DDEGLNP	IVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCEPSKIGN	360
Db	534	DDEGLNP	IVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCEPSKIGN	593
QY	361	DHCDPECE	HPLTGYDGGDCRLQGRCYSWNRRDGLCHVECNMNLNDFDDGCCDPQVADVR	420
Db	594	DHCDPECE	HPLTGYDGGDCRLQGRCYSWNRRDGLCHVECNMNLNDFDDGCCDPQVADVR	653
QY	421	KTCFDPDS	PKRAYMSVKELKEALQLNSTHFLNTYFASSVREDLAGAATWPDKDAVTHLG	480
Db	654	KTCFDPDS	PKRAYMSVKELKEALQLNSTHFLNTYFASSVREDLAGAATWPDKDAVTHLG	713
QY	481	GIVLSPAYY	GMPGHTDTMIHEVHVLGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD	540
Db	714	GIVLSPAYY	GMPGHTDTMIHEVHVLGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD	773

QY	541	TAPTPKSELCREPEPTSDTCGTRFPGAPFTNYMSYTTDNDCTDNFTPNQVARMHCYLDLV	600
Db	774	TAPTPKSELCREPEPTSDTCGTRFPGAPFTNYMSYTTDNDCTDNFTPNQVARMHCYLDLV	833
QY	601	YQOWTESRKPTPIPIPPMVIQGTNKSLLTIHWLPRISGVVYDRAAGSLCAGACTEDGTFRQY	660
Db	834	YQOWTESRKPTPIPIPPMVIQGTNKSLLTIHWLPRISGVVYDRAAGSLCAGACTEDGTFRQY	893
QY	661	VHTASSRRVCDSSGYWTPPEAVGPPDVDPCEBPSLQAWSPVYHLYHMNMTVPCEPTEGCSL	720
Db	894	VHTASSRRVCDSSGYWTPPEAVGPPDVDPCEBPSLQAWSPVYHLYHMNMTVPCEPTEGCSL	953
QY	721	ELLFQHPVQADTLTLMTVSFFMESSQVLFDTTEILLENKESVHLGPLDTFCDIPLTIKLAHV	780
Db	954	ELLFQHPVQADTLTLMTVSFFMESSQVLFDTTEILLENKESVHLGPLDTFCDIPLTIKLAHV	1013
QY	781	DGKVSQVAVYTFDERIEIDALLTSOPHSPLCSGCRPVRYQVLRDPPFASGLPVVYTHSH	840
Db	1014	DGKVSQVAVYTFDERIEIDALLTSOPHSPLCSGCRPVRYQVLRDPPFASGLPVVYTHSH	1073
QY	841	RKFTDVEVTPGQMYQYQVLAAGSELGEASPLLNHIHGAPYCGDGKVSERLGEECDGDGL	900
Db	1074	RKFTDVEVTPGQMYQYQVLAAGSELGEASPLLNHIHGAPYCGDGKVSERLGEECDGDGL	1133
QY	901	VSGDGSCKVCELEEGFNCVGEBSLCYMEGDGICEPFERKTSIVDCGIYTPKGYLDQWAT	960
Db	1134	VSGDGSCKVCELEEGFNCVGEBSLCYMEGDGICEPFERKTSIVDCGIYTPKGYLDQWAT	1193
QY	961	RAYSSHEDKKKCPVSLVTGEPSLICTSYHPDLPNHRPLTGMPFCVASENETQDDRSEOP	1020
Db	1194	RAYSSHEDKKKCPVSLVTGEPSLICTSYHPDLPNHRPLTGMPFCVASENETQDDRSEOP	1253
QY	1021	EGSLKKEDEVWLKVCFNRPGEARAFIFLTTDGLVPGEHQPTVTLVLTVDVRGSNHSLG	1080
Db	1254	EGSLKKEDEVWLKVCFNRPGEARAFIFLTTDGLVPGEHQPTVTLVLTVDVRGSNHSLG	1313
QY	1081	YGLSCQHNPLIINTVTHQNVLFHHTTSVVLNFPSSPRVGISAVALRTSSRIGLSAPSNCTIS	1140
Db	1314	YGLSCQHNPLIINTVTHQNVLFHHTTSVVLNFPSSPRVGISAVALRTSSRIGLSAPSNCTIS	1373
QY	1141	EDEGQNHQGSCHRPCKGODSCPSLLLDHADVNCTSIGPIMKCAITCQRGFALQASS	1200
Db	1374	EDEGQNHQGSCHRPCKGODSCPSLLLDHADVNCTSIGPIMKCAITCQRGFALQASS	1433
QY	1201	GQYIRPMQKEILLTSSSGHMDQNVSLPVDGCVDPDSLNYANFSCSEGTKFLKRCISIC	1260
Db	1434	GQYIRPMQKEILLTSSSGHMDQNVSLPVDGCVDPDSLNYANFSCSEGTKFLKRCISIC	1493
QY	1261	VPPAKLQGLSPWLTLCLBDGLMSLPEVYCKLECDAPRIILNANULLPHCLQDNHDVGTICK	1320
Db	1494	VPPAKLQGLSPWLTLCLBDGLMSLPEVYCKLECDAPRIILNANULLPHCLQDNHDVGTICK	1553
QY	1321	YECKPQYVVAESAEGKVRNKLKIQCLEGGIWEQSSCIPVVCERPFPVPFEGMYECTNGFS	1380
Db	1554	YECKPQYVVAESAEGKVRNKLKIQCLEGGIWEQSSCIPVVCERPFPVPFEGMYECTNGFS	1613
QY	1381	LDSQCVLNCNOREKPLILCTKEGLMTQEFKLCENTLOGECPBPSELNSVEYKCEQGYGI	1440
Db	1614	LDSQCVLNCNOREKPLILCTKEGLMTQEFKLCENTLOGECPBPSELNSVEYKCEQGYGI	1673
QY	1441	GAVCSPLCVIPSPDPVMLPENITADTLEHWMBPVKVQSIYCTGRQWHPDVLVHCIOGC	1500
Db	1674	GAVCSPLCVIPSPDPVMLPENITADTLEHWMBPVKVQSIYCTGRQWHPDVLVHCIOGC	1733
QY	1501	E 1501	
Db	1734	E 1734	

```

; Patent No. 6656700
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN B
; FILE REFERENCE: MDHMOF-8
; CURRENT APPLICATION NUMBER: US/09/827,998
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomic Sequence Listing Engine
; Patent No. 6656700
; SEQ ID NO 16
; LENGTH: 1385
; TYPE: PRT
; ORGANISM: Homo sapiens
;
US-09-827-998-16

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Query Match	36.8%;	Score 574;	DB 4;	Length 1385;
Best Local Similarity	99.5%;	Pred. No. 0;		
Matches 1074;	Conservative	0;	Mismatches	5;
			Indels	0;
			Gaps	0;

QY	480	GGIVLSPAYYGMPGHTDTMIHEVGHVLGLYHVFKGVSERESCNDPCKETVPSMETGDLCA	539
Db	307	GGIVLSPAYYGMPGHTDTMIHEVGHVLGLYHVFKGVSERESCNDPCKETVPSMETGDLCA	366
QY	540	DTAFTPXSELCREPEPISDTGCFTRFPGAFPTNYMSYTDNCTDNFTPNQVARMHCYLDL	599
Db	367	DTAFTPXSELCREPEPISDTGCFTRFPGAFPTNYMSYTDNCTDNFTPNQVARMHCYLDL	426
QY	600	VYQQWTESRKPTPIPIPMVIGQTNKSLTIHMLPPTISGVVYDRAAGSLCGACTEDGTFRQ	659
Db	427	VYQQWTESRKPTPIPIPMVIGQTNKSLTIHMLPPTISGVVYDRAAGSLCGACTEDGTFRQ	486
QY	660	VYHTASSRRVCDSSGYWTPBEAVGPPDDVDQCEBPSLOAWSPEVHLYHMMNTVPCPTGCS	719
Db	487	VYHTASSRRVCDSSGYWTPBEAVGPPDDVDQCEBPSLOAWSPEVHLYHMMNTVPCPTGCS	546
QY	720	LELLFOHPVQADTLTLMTVSFFMESSQVLFDTTEILLENKESVHLGLDFTFCDIPLTIKLH	779
Db	547	LELLFOHPVQADTLTLMTVSFFMESSQVLFDTTEILLENKESVHLGLDFTFCDIPLTIKLH	606
QY	780	VDGKVSQVQVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVYTHS	839
Db	607	VDGKVSQVQVYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVYTHS	666
QY	840	HRKFTDVEVTPGQMYQVQLAEAGGELGEASPLNHIHGAPYCGDGKVSERLGECCDDGD	899
Db	667	HRKFTDVEVTPGQMYQVQLAEAGGELGEASPLNHIHGAPYCGDGKVSERLGECCDDGD	726
QY	900	LVS GDGCSKVCELEBEGFNCVGEPSLCYMYEGDICEPFEKRTSIVDCGIYTPKGYLDQWA	959
Db	727	LVS GDGCSKVCELEBEGFNCVGEPSLCYMYEGDICEPFEKRTSIVDCGIYTPKGYLDQWA	786
QY	960	TRAYSSHEDKKKCPVSLVTGEPHSLICTSYHPLDPNHRPLTGMFPCVASENETODDRSEQ	1019
Db	787	TRAYSSHEDKKKCPVSLVTGEPHSLIRTSYHPLDPNHRPLTGMFPCVASENETODDRSEQ	846
QY	1020	PEGSLKKEDEVMLKYCFNRPGEARAFIFLTTDGLVPGEHQOPTVTLYLTDVRSNMHSLG	1079
Db	847	PEGSLKKEDEVMLKYCFNRPGEARAFIFLTTDGLVPGEHQOPTVTLYLTDVRSNMHSLG	906
QY	1080	TYGLSCQHNPLIINVTHQONVLFHHTTSVULNFPVGVISAVALTSSRIGLSAPNSCI	1139
Db	907	TYGLSCQHNPLIINVTHQONVLFHHTTSVULNFPVGVISAVALTSSRIGLSAPNSCI	966
QY	1140	SEDEGONHOGQSCIHRCGKQDSCPSLLLDHADVNVCTSIGPGLMKCAITCRGFALQAS	1199
Db	967	SEDEGONHOGQSCIHRCGKQDSCPSLLLDHADVNVCTSIGPGLMKCAITCRGFALQAS	1026


```
; APPLICANT: Liang, Jihong
; APPLICANT: Mitanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 781
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Thermotoga maritima
US-09-732-210-781
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Query Match          0.5%; Score 8; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      94 SGKDKGR 101
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Db       13 SGKDKGR 20
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RESULT 8
US-09-949-016-11427
; Sequence 11427, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
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; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11427
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-11427
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Query Match          0.5%; Score 8; DB 4; Length 382;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      436 VKELKEAL 443
        |||||
Db       40 VKELKEAL 47
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RESULT 9
US-09-252-991A-31900
; Sequence 31900, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
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; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 31900
; LENGTH: 400
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31900
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Query Match          0.5%; Score 8; DB 4; Length 400;
Best Local Similarity 100.0%; Pred. No. 50;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      45 VLAEIPRE 52
        |||||
Db       189 VLAEIPRE 196
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RESULT 10
US-09-134-000C-4291
; Sequence 4291, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
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; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4291
; LENGTH: 494
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-4291
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Query Match          0.5%; Score 8; DB 4; Length 494;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      646 SLGACTE 653
        |||||
Db       368 SLGACTE 375
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RESULT 11
US-09-536-059-3
; Sequence 3, Application US/09536059
; Patent No. 6544737
; GENERAL INFORMATION:
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Cohen-Akenine, Annick
; TITLE OF INVENTION: GENOMIC SEQUENCE OF THE purH GENE AND purH-RELATED BIALLELIC
; TITLE OF INVENTION: MARKERS.
; FILE REFERENCE: GENSET.058AUS
; CURRENT APPLICATION NUMBER: US/09/536,059
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 60/125,961
; PRIOR FILING DATE: 1999-03-24
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent.pm
; SEQ ID NO 3
; LENGTH: 592
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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NAME/KEY: VARIANT
LOCATION: 116
OTHER INFORMATION: Xaa=Thr or Ser
US-09-536-059-3

Query Match 0.5%; Score 8; DB 4; Length 592;
Best Local Similarity 100.0%; Pred. No. 71;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 436 VKELKEAL 443
|||
Db 250 VKELKEAL 257

RESULT 12

US-09-180-422B-27
Sequence 27, Application US/09180422B
Patent No. 6444644

GENERAL INFORMATION:

APPLICANT: BRUCKDORFER, KARL R

ETTELAI, CAMILLE

TITLE OF INVENTION: ANTICOAGULANT PEPTIDE FRAGMENTS DERIVED
FROM APOLIPROTEIN B-100

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESSEE: NIXON & VANDERHAY, P.C.

STREET: 1100 NORTH GLEBE ROAD, 8TH FLOOR

CITY: ARLINGTON

STATE: VA

COUNTRY: USA

ZIP: 22201

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/180,422B

FILING DATE: 07-Dec-1998

CLASSIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: SADOFF, B.J.

REGISTRATION NUMBER: 36663

REFERENCE/DOCKET NUMBER: 117-268

TELECOMMUNICATION INFORMATION:

TELEPHONE: 7038164000

TELEFAX: 7038164100

INFORMATION FOR SEQ ID NO: 27:

SEQUENCE CHARACTERISTICS:

LENGTH: 4536 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 27:

US-09-180-422B-27

Query Match 0.5%; Score 8; DB 4; Length 4536;
Best Local Similarity 100.0%; Pred. No. 4.5e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1079 GTYGLSCQ 1086
|||
Db 1472 GTYGLSCQ 1479

RESULT 13

US-09-079-030-1

Sequence 1, Application US/09079030

Patent No. 6635623

GENERAL INFORMATION:

APPLICANT: Guevera, Jr., Juan G.

APPLICANT: Hoogveeen, Ron C.

APPLICANT: Moore, Paul J.
TITLE OF INVENTION: LIPOPROTEINS AS NUCLEIC ACID DELIVERY
TITLE OF INVENTION: VECTORS FOR TRANSFECTION OF EUKARYOTIC CELLS
NUMBER OF SEQUENCES: 229
CORRESPONDENCE ADDRESS:

ADDRESSEE: Arnold, White & Durkee

STREET: P.O. Box 4433

CITY: Houston

STATE: Texas

COUNTRY: USA

ZIP: 77210

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/079,030

FILING DATE: Concurrently Herewith

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: McMillian, Nabeela R.

REGISTRATION NUMBER: P-43,363

REFERENCE/DOCKET NUMBER: ARAG:003

TELECOMMUNICATION INFORMATION:

TELEPHONE: 512/418-3000

TELEFAX: 512/474-7577

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 4536 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

US-09-079-030-1

Query Match 0.5%; Score 8; DB 4; Length 4536;
Best Local Similarity 100.0%; Pred. No. 4.5e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1079 GTYGLSCQ 1086
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Db 1472 GTYGLSCQ 1479

RESULT 14

US-09-108-006C-1

Sequence 1, Application US/09108006C

Patent No. 6524613

GENERAL INFORMATION:

APPLICANT: Steer, Clifford J.

Kren, Betsy T.

Bandyopadhyay, Paramita

Roy-Chowdhury, Jayanta

TITLE OF INVENTION: Hepatocellular Chimeraplasty

NUMBER OF SEQUENCES: 62

CORRESPONDENCE ADDRESS:

ADDRESSEE: Kimeragen, Inc.

STREET: 300 Pheasant Run

CITY: Newtown

STATE: PA

COUNTRY: USA

ZIP: 18940

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/108,006C

FILING DATE: 30-Jun-1992

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/054,288

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; FILING DATE: 30-APR-1997
; APPLICATION NUMBER: 60/054,837
; FILING DATE: 05-AUG-1997
; APPLICATION NUMBER: 60/064,996
; FILING DATE: 10-NOV-1997
; APPLICATION NUMBER: 60/074,497
; FILING DATE: 12-FEB-1998
; APPLICATION NUMBER: PCT US 98/08834
; FILING DATE: 30-APR-1998
; ATTORNEY/AGENT INFORMATION:
;   NAME: Friebe, Thomas
;   REGISTRATION NUMBER: 29258
;   REFERENCE/DOCKET NUMBER: 7991-015-999
; TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 215-504-4444
;   TELEFAX: 215-504-4545
;   TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 1:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 4563 amino acids
;     TYPE: amino acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
; MOLECULE TYPE: protein
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US-09-108-006C-1
    
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Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
    
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; Sequence 842, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
;   APPLICANT: Giot, Loic
;   APPLICANT: Mansfield, Traci A.
;   TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
;   FILE REFERENCE: 15966-542
;   CURRENT FILING DATE: 2000-03-29
;   PRIOR APPLICATION NUMBER: US/09/538,092
;   PRIOR FILING DATE: 1999-04-01
;   PRIOR APPLICATION NUMBER: 60/127,352
;   PRIOR FILING DATE: 2000-02-01
;   NUMBER OF SEQ ID NOS: 1387
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;   SEQ ID NO 842
;   LENGTH: 4563
;   TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (0)..(0)
; OTHER INFORMATION: Polypeptide Accession Number P04114
US-09-538-092-842
    
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Best Local Similarity 100.0%; Pred. No. 4.6e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
    
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QY      1079 GTYGLSCQ 1086
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Db      1499 GTYGLSCQ 1506
    
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Search completed: August 25, 2005, 22:29:58

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 25, 2005, 22:21:31 ; Search time 116 Seconds
(without alignments)
5277.405 Million cell updates/sec

Title: US-09-983-025B-2_COPY_234_1791

Perfect score: 1558
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Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 1767149 seqs, 392926209 residues

Word size : 5

Total number of hits satisfying chosen parameters: 293670

Minimum DB seq length: 0

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Post-processing: Listing first 45 summaries

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22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1303	83.6	1791	9	US-09-827-998-3 Sequence 3, Appl1
3	1303	83.6	1791	15	US-10-675-685-3 Sequence 3, Appl1
4	1299	83.4	1770	9	US-09-827-998-10 Sequence 10, Appl1
5	1299	83.4	1770	15	US-10-675-685-10 Sequence 10, Appl1
6	574	36.8	1385	9	US-09-827-998-16 Sequence 16, Appl1
7	574	36.8	1385	15	US-10-675-685-16 Sequence 16, Appl1
8	192	12.3	192	9	US-09-864-761-34265 Sequence 34265, A
9	70	4.5	70	9	US-09-864-761-34264 Sequence 34264, A
10	63	4.0	63	9	US-09-864-761-34262 Sequence 34262, A
11	18	1.2	704	17	US-10-741-600-1402 Sequence 1402, Ap

12	18	1.2	858	15	US-10-334-143-85	Sequence 85, Appl1
13	18	1.2	1232	17	US-10-741-600-1404	Sequence 1404, Ap
14	18	1.2	1420	17	US-10-741-600-1403	Sequence 1403, Ap
15	18	1.2	1420	17	US-10-741-600-1405	Sequence 1405, Ap
16	18	1.2	1547	17	US-10-783-311-2	Sequence 2, Appl1
17	18	1.2	1627	10	US-09-983-025-25	Sequence 25, Appl1
18	18	1.2	1627	15	US-10-295-027-663	Sequence 663, App
19	18	1.2	1627	17	US-10-783-311-1	Sequence 1, Appl1
20	18	1.2	1627	17	US-10-741-600-1406	Sequence 1406, Ap
21	18	1.2	1627	17	US-10-991-321-32	Sequence 32, Appl1
22	18	1.2	1627	18	US-10-887-229A-8	Sequence 8, Appl1
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27	8	0.5	20	16	US-10-679-032-45	Sequence 45, Appl1
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32	8	0.5	117	16	US-10-437-963-137791	Sequence 137791,
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38	8	0.5	194	15	US-10-424-599-261285	Sequence 261285,
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40	8	0.5	204	16	US-10-437-963-195783	Sequence 195783,
41	8	0.5	221	16	US-10-767-701-32497	Sequence 32497, A
42	8	0.5	274	15	US-10-282-122A-50794	Sequence 50794, A
43	8	0.5	279	15	US-10-424-599-261287	Sequence 261287,
44	8	0.5	281	15	US-10-282-122A-61115	Sequence 61115, A
45	8	0.5	377	16	US-10-602-898A-14	Sequence 14, Appl1

ALIGNMENTS

RESULT 1

US-09-983-025-2

Sequence 2, Application US/09983025

Publication No. US20030124529A1

GENERAL INFORMATION:

APPLICANT: OXVIG, Michael T.

APPLICANT: OVERGARD, Michael T.

TITLE OF INVENTION: PREGNANCY-ASSOCIATED PLASMA PROTEIN-A2 (PAPP-A2)

FILE REFERENCE: OXVIG-1A

CURRENT APPLICATION NUMBER: US/09/983, 025

PRIOR FILING DATE: 2001-10-22

PRIOR APPLICATION NUMBER: US 60/241, 840

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: DK PA 2000 01571

PRIOR FILING DATE: 2000-10-20

NUMBER OF SEQ ID NOS: 25

SOFTWARE: PatentIn version 3.1

SEQ ID NO 2

LENGTH: 1791

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: misc feature

LOCATION: (1)..(66)

OTHER INFORMATION: prepro part of PAPP-A2

NAME/KEY: misc feature

LOCATION: (67)..(699)

OTHER INFORMATION: pro part of PAPP-A2

US-09-983-025-2

Query Match 100.0%; Score 1558; DB 10; Length 1791;
Best local Similarity 100.0%; Pred. No. 0;
Matches 1558; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
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; Sequence 3, Application US/09827998
; Patent No. US20020102252A1
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: MDNORF-8
; CURRENT APPLICATION NUMBER: US/09/827, 998
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aecmica Sequence Listing Engine
; SEQ ID NO 3
; LENGTH: 1791
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-827-998-3

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Best Local Similarity 99.9%; Pred. No. 0;
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QY 961 RAYSSHEDKKCPVSLVTGEPHSLICTSYHBDLPNHRPLTGMFPCVASENETQDDRSEOP 1020
Db 1194 RAYSSHEDKKCPVSLVTGEPHSLICTSYHBDLPNHRPLTGMFPCVASENETQDDRSEOP 1253
QY 1021 EGSLKKEDVWMLKVCFNRPGEARAFIFLITDGLVPEGHQOPTVTLYLTDVSGSNHSLGT 1080
Db 1254 EGSLKKEDVWMLKVCFNRPGEARAFIFLITDGLVPEGHQOPTVTLYLTDVSGSNHSLGT 1313
QY 1081 YGLSCQHNPLIINTVTHQNVLFHHTTSVLNFSFPRVGISAVALRTSSRIGLSAPSNCIS 1140
Db 1314 YGLSCQHNPLIINTVTHQNVLFHHTTSVLNFSFPRVGISAVALRTSSRIGLSAPSNCIS 1373
QY 1141 EDEGQNHQGSCTHRPCGKODSCPSLLDHADVNTSISGGLMKCAITQORGALQASS 1200
Db 1374 EDEGQNHQGSCTHRPCGKODSCPSLLDHADVNTSISGGLMKCAITQORGALQASS 1433
QY 1201 GOYIRPMQKEIILLTSSGHWQNVSCLPVDCGVPDPSLVNANFSCSEGTKFLKRCISISC 1260
Db 1434 GOYIRPMQKEIILLTSSGHWQNVSCLPVDCGVPDPSLVNANFSCSEGTKFLKRCISISC 1493
QY 1261 VPPAKLQGLSPWLTCLLEDGLMSLPVYCKLECDAPRIILNANLLPHCLQDNHDVGTICK 1320
Db 1494 VPPAKLQGLSPWLTCLLEDGLMSLPVYCKLECDAPRIILNANLLPHCLQDNHDVGTICK 1553
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QY 1321 YECKPGYVVAESAEGKVRNKLKIQCLEGGIWEQSSCIPVVCPPPPVREGMYECTNGFS 1380
Db 1554 YECKPGYVVAESAEGKVRNKLKIQCLEGGIWEQSSCIPVVCPPPPVREGMYECTNGFS 1613
QY 1381 LDSQCVLNCNOREKELPILCTKEGLWTOEFKLCENLQGECPPPPSSELSVYEYKCEQYGI 1440
Db 1614 LDSQCVLNCNOREKELPILCTKEGLWTOEFKLCENLQGECPPPPSSELSVYEYKCEQYGI 1673
QY 1441 GAVCSPLCVIPSPDPVMLPENITADTLEHNMPEVKVQISIVCTGRROWHPDPVLVHCIOQC 1500
Db 1674 GAVCSPLCVIPSPDPVMLPENITADTLEHNMPEVKVQISIVCTGRROWHPDPVLVHCIOQC 1733
QY 1501 EPPQA 1505
Db 1734 EPPQA 1738
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RESULT 3
US-10-675-685-3
; Sequence 3, Application US/10675685
; Publication No. US20040063134A1
; GENERAL INFORMATION:
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: PB0114
; CURRENT APPLICATION NUMBER: US/10/675,685
; PRIOR FILING DATE: 2003-09-30
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 3
; LENGTH: 1791
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-675-685-3
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Query Match 83.6%; Score 1303; DB 15; Length 1791;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1503; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 SPPEESNONGEGSYREAEFTNSQVGLPILYFSGRERLLLRPEVLAEIPREAFTEAVW 60
Db 234 SPPEESNONGEGSYREAEFTNSQVGLPILYFSGRERLLLRPEVLAEIPREAFTEAVW 293
QY 61 KPREGQNNPAIIAGVPFDCNSHTVSDKGMALGIRSGKDKGRDARFPFSLCTDRVKATIL 120
Db 294 KPREGQNNPAIIAGVPFDCNSHTVSDKGMALGIRSGKDKGRDARFPFSLCTDRVKATIL 353
QY 121 ISHSRYQPGTWHVAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMAACRSLLLGDS 180
Db 354 ISHSRYQPGTWHVAATYDGRHMAIYVDGTQVASSLDQSGPLNSPFMAACRSLLLGDS 413
QY 181 EDGHYFRGHLGTLVFWSTALPQSHFQHSQHSSEEBEATDVLVTASFEPVNTWVPFRDE 240
Db 414 EDGHYFRGHLGTLVFWSTALPQSHFQHSQHSSEEBEATDVLVTASFEPVNTWVPFRDE 473
QY 241 KYPRLEVLQGFEPPEILSPLQPLCGQTVCDNVELISQYNGWYPLRGEKYIRYQVNNIC 300
Db 474 KYPRLEVLQGFEPPEILSPLQPLCGQTVCDNVELISQYNGWYPLRGEKYIRYQVNNIC 533
QY 301 DDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCPEPSKIGN 360
Db 534 DDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCPEPSKIGN 593
QY 361 DHCDPECEHPLTGYDGGDCRLQGRCYSWNRDGLCHVECNMMLNDFDGDCCDPQVADVR 420
Db 594 DHCDPECEHPLTGYDGGDCRLQGRCYSWNRDGLCHVECNMMLNDFDGDCCDPQVADVR 653
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QY 421 KTCFDPDSPKRAYSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWPMWDXAVTHLG 480
| | | | |
Db 654 KTCFDPDSPKRAYSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWPMWDXAVTHLG 713
QY 481 GIVLSPAYYGMGHDTMIHEVGHVILGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD 540
| | | | |
Db 714 GIVLSPAYYGMGHDTMIHEVGHVILGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD 773
QY 541 TAPTPKSELCREPEPTSDTCGTRFPGAPFTNYMSYTDNCTDNFTPNQVARMHCYLDLV 600
| | | | |
Db 774 TAPTPKSELCREPEPTSDTCGTRFPGAPFTNYMSYTDNCTDNFTPNQVARMHCYLDLV 833
QY 601 YQWWTESRKPTPIPIPMVIGQTNKSLLTIHMLPISGVVYDRASGSLCGACTEDGTRQY 660
| | | | |
Db 834 YQWWTESRKPTPIPIPMVIGQTNKSLLTIHMLPISGVVYDRASGSLCGACTEDGTRQY 893
QY 661 VHTASSRRVCDSSGYWTPPEAVGPPVDVQPCBPSSLQAMSPEVHLHYHMMTVPCPTGCSL 720
| | | | |
Db 894 VHTASSRRVCDSSGYWTPPEAVGPPVDVQPCBPSSLQAMSPEVHLHYHMMTVPCPTGCSL 953
QY 721 ELLFQHPVQADTLTLWVTSFFMESSQVLPDTEILLENKESVHLGLPLDFCDIPLTIKLAHV 780
| | | | |
Db 954 ELLFQHPVQADTLTLWVTSFFMESSQVLPDTEILLENKESVHLGLPLDFCDIPLTIKLAHV 1013
QY 781 DGKVSQVYVTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVTHSH 840
| | | | |
Db 1014 DGKVSQVYVTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVTHSH 1073
QY 841 RKFTDVEVTPGQWYQYVLABAGGELGEASPPLNHIHGAPYCGDGKYSERLGBECDGDL 900
| | | | |
Db 1074 RKFTDVEVTPGQWYQYVLABAGGELGEASPPLNHIHGAPYCGDGKYSERLGBECDGDL 1133
QY 901 VSGDGCSKVCLEBEGFNCVGEPSLCYMEBGDICEPFERKTSIVDCGIYTPKGYLDQWAT 960
| | | | |
Db 1134 VSGDGCSKVCLEBEGFNCVGEPSLCYMEBGDICEPFERKTSIVDCGIYTPKGYLDQWAT 1193
QY 961 RAYSSHEDKKCPVSLVTGEPHSLICTSYHBDLPNHRPLTGMFPCVASENETQDDRSEOP 1020
| | | | |
Db 1194 RAYSSHEDKKCPVSLVTGEPHSLICTSYHBDLPNHRPLTGMFPCVASENETQDDRSEOP 1253
QY 1021 EGSLKKEDEVWMLKVCFNRPGEARAFIFLTITDGLVPGEHQOPTVTLVYLDVRGSNHSIGT 1080
| | | | |
Db 1254 EGSLKKEDEVWMLKVCFNRPGEARAFIFLTITDGLVPGEHQOPTVTLVYLDVRGSNHSIGT 1313
QY 1081 YGLSCQHNPLINTVTHQNVLFHHTTSVYLNFPSSPRVGISAVALRTSRIGLSAPSNCTIS 1140
| | | | |
Db 1314 YGLSCQHNPLINTVTHQNVLFHHTTSVYLNFPSSPRVGISAVALRTSRIGLSAPSNCTIS 1373
QY 1141 EDEGQNHQGSCIHRCCKQDSCPSLLDHADVNCSTSIGPGLMCAITCORGALQASS 1200
| | | | |
Db 1374 EDEGQNHQGSCIHRCCKQDSCPSLLDHADVNCSTSIGPGLMCAITCORGALQASS 1433
QY 1201 GQYIRPMQKEILITCSSGHWQNVSCLPVDCGVPDPSLVNYANFSCSEGTKFLKRCISISC 1260
| | | | |
Db 1434 GQYIRPMQKEILITCSSGHWQNVSCLPVDCGVPDPSLVNYANFSCSEGTKFLKRCISISC 1493
QY 1261 VPPAKLQGLSPWLTCLJEDGLMSLPEVYCKLECDAPRIILNANLLPHCLQDNHNDVGTICK 1320
| | | | |
Db 1494 VPPAKLQGLSPWLTCLJEDGLMSLPEVYCKLECDAPRIILNANLLPHCLQDNHNDVGTICK 1553
QY 1321 YECKPGYYVAESAEGKYRNKLLKIQCLEGGIWEQSCIPVCEPFPVFEQMYECTNGFS 1380
| | | | |
Db 1554 YECKPGYYVAESAEGKYRNKLLKIQCLEGGIWEQSCIPVCEPFPVFEQMYECTNGFS 1613
QY 1381 LDSQCVLNCNQERKLPILCTKEGLWTOEFKLCENLQEGCPRPPSELNSVEYKCEQGYGI 1440
| | | | |
Db 1614 LDSQCVLNCNQERKLPILCTKEGLWTOEFKLCENLQEGCPRPPSELNSVEYKCEQGYGI 1673
QY 1441 GAVCSPLCVIPSDPVMLEPENITADTLEHMEPVKYQSI VCTGRQWHPDPLVHCTIQSC 1500
| | | | |
Db 1674 GAVCSPLCVIPSDPVMLEPENITADTLEHMEPVKYQSI VCTGRQWHPDPLVHCTIQSC 1733
QY 1501 EPFOA 1505

Db 1734 EPFOA 1738
| | | | |
RESULT 4
US-09-827-998-10
; Sequence 10, Application US/09827998
; Patent No. US20020102252A1
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: MDMORF-8
; CURRENT APPLICATION NUMBER: US/09/827, 998
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 60/207, 456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236, 359
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 10
; LENGTH: 1770
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-827-998-10
Query Match 83.4%; Score 1299; DB 9; Length 1770;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 SPEESNONGEGSYREAETFNQVGLPILYFSGRERLLLRPEVLAIEPREAFTVEAWV 60
| | | | |
Db 234 SPEESNONGEGSYREAETFNQVGLPILYFSGRERLLLRPEVLAIEPREAFTVEAWV 293
QY 61 KPEGQNNPAIIAGVFNDCSHTVSDKGWALGIRSGKDKGRDARFFPSLCTDRVKATIL 120
| | | | |
Db 294 KPEGQNNPAIIAGVFNDCSHTVSDKGWALGIRSGKDKGRDARFFPSLCTDRVKATIL 353
QY 121 ISHSRYQPGTWHVAATYDGRHMAIYVDGTQVASSLDDSGPLNSPMAASCSLLIGDSS 180
| | | | |
Db 354 ISHSRYQPGTWHVAATYDGRHMAIYVDGTQVASSLDDSGPLNSPMAASCSLLIGDSS 413
QY 181 EDGHYFRGHILGLVFWSTALPQSHFQSSQHSGBEATDVLTLASFEPVNTWVPFRDE 240
| | | | |
Db 414 EDGHYFRGHILGLVFWSTALPQSHFQSSQHSGBEATDVLTLASFEPVNTWVPFRDE 473
QY 241 KYPRLEVIQGEPEPEILSPLOPPLCGQTVCDNVELISQYNGYWPRLGEEKVIRYQVNNIC 300
| | | | |
Db 474 KYPRLEVIQGEPEPEILSPLOPPLCGQTVCDNVELISQYNGYWPRLGEEKVIRYQVNNIC 533
QY 301 DDEGLNPVYSEEQIRLOHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCPEPSKIGN 360
| | | | |
Db 534 DDEGLNPVYSEEQIRLOHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCPEPSKIGN 593
QY 361 DHCDPECEHPLTGYDGDCLQGRCYSWNRDGLCHVECNNMLNDFDGDCCDPQVADVR 420
| | | | |
Db 594 DHCDPECEHPLTGYDGDCLQGRCYSWNRDGLCHVECNNMLNDFDGDCCDPQVADVR 653
QY 421 KTCFDPDSPKRAYSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWPMWDXAVTHLG 480
| | | | |
Db 654 KTCFDPDSPKRAYSVKELKEALQLNSTHFLNIYFASSVREDLAGAATWPMWDXAVTHLG 713
QY 481 GIVLSPAYYGMGHDTMIHEVGHVILGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD 540
| | | | |
Db 714 GIVLSPAYYGMGHDTMIHEVGHVILGLYHVFKGVSERESCNDPCKETVPSMETGDLCAD 773
QY 541 TAPTPKSELCREPEPTSDTCGTRFPGAPFTNYMSYTDNCTDNFTPNQVARMHCYLDLV 600
| | | | |
Db 774 TAPTPKSELCREPEPTSDTCGTRFPGAPFTNYMSYTDNCTDNFTPNQVARMHCYLDLV 833
QY 601 YQWWTESRKPTPIPIPMVIGQTNKSLLTIHMLPISGVVYDRASGSLCGACTEDGTRQY 660
| | | | |

Db 834 YQWTESRKPTPIPIPMVIGQTNKSLTIHMLPPISGVYDRASGSLCGACTEDGTFRQY 893
QY 661 VHTASSRRVCDSSGYWTPEEAVGPPDVDPCEPSPLOAMSPEVHLVHMNTVPCPTGCSL 720
Db 894 VHTASSRRVCDSSGYWTPEEAVGPPDVDPCEPSPLOAMSPEVHLVHMNTVPCPTGCSL 953
QY 721 ELLFOHPVQADTLTIWTSFEMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKLAHV 780
Db 954 ELLFOHPVQADTLTIWTSFEMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKLAHV 1013
QY 781 DGKVGKVTYTFDERIEIDAALLTSQPHSPSCGCRVRYQVLRDPPFASGLPVVVTSH 840
Db 1014 DGKVGKVTYTFDERIEIDAALLTSQPHSPSCGCRVRYQVLRDPPFASGLPVVVTSH 1073
QY 841 RKFTDVEVTPGQMYQYVLAEGAGELGEASPLNHHGAPYCGDGKVSERLGECDGDL 900
Db 1074 RKFTDVEVTPGQMYQYVLAEGAGELGEASPLNHHGAPYCGDGKVSERLGECDGDL 1133
QY 901 VSGDGSKVCELEEGFNCVGEPSLCMYEGDICEPFEKRTSIVDCGIYTPKGYLDQWAT 960
Db 1134 VSGDGSKVCELEEGFNCVGEPSLCMYEGDICEPFEKRTSIVDCGIYTPKGYLDQWAT 1193
QY 961 RAYSSHEDKKKCPVSLVTGERPHSLICTSYHPDLPHNRPLTGWFCVASENETODDRSEOP 1020
Db 1194 RAYSSHEDKKKCPVSLVTGERPHSLICTSYHPDLPHNRPLTGWFCVASENETODDRSEOP 1253
QY 1021 EGSLLKEDVWMLKVCNRPGEARAFIFLTITDGLVGEHQOPTVTLVLTIVRGSNHS LGT 1080
Db 1254 EGSLLKEDVWMLKVCNRPGEARAFIFLTITDGLVGEHQOPTVTLVLTIVRGSNHS LGT 1313
QY 1081 YGLSCQHNPLINVTTHQNVLFHHTTSVLLNFSSPRVGISAVALRTSSRIGSAPSNCIS 1140
Db 1314 YGLSCQHNPLINVTTHQNVLFHHTTSVLLNFSSPRVGISAVALRTSSRIGSAPSNCIS 1373
QY 1141 EDEGQNHQGSCHRPCKQDSCPSLLDHDVNVCTSIGPLMKCAITCQGFALQASS 1200
Db 1374 EDEGQNHQGSCHRPCKQDSCPSLLDHDVNVCTSIGPLMKCAITCQGFALQASS 1433
QY 1201 GQYIRPMQKEILLTCSSGHWDQNVSLPYDCGVPDPSLVNYANFSCSEGTKEFLKRCISISC 1260
Db 1434 GQYIRPMQKEILLTCSSGHWDQNVSLPYDCGVPDPSLVNYANFSCSEGTKEFLKRCISISC 1493
QY 1261 VPPAKLOGLSPWLTCLIEDGLMSLPEVYCKLECDAPILNANLLPHCLQDNHDTVGTICK 1320
Db 1494 VPPAKLOGLSPWLTCLIEDGLMSLPEVYCKLECDAPILNANLLPHCLQDNHDTVGTICK 1553
QY 1321 YECKPGYVAESAEGKVRNKLKIQCLEGGIWEQSGCIPVCEPFPVFEQMECTNGFS 1380
Db 1554 YECKPGYVAESAEGKVRNKLKIQCLEGGIWEQSGCIPVCEPFPVFEQMECTNGFS 1613
QY 1381 LDSQCVLNCNOREKLPILCTKEGLWTOBFKLCENLQGECPRPSELNSVEYKCEQGYGI 1440
Db 1614 LDSQCVLNCNOREKLPILCTKEGLWTOBFKLCENLQGECPRPSELNSVEYKCEQGYGI 1673
QY 1441 GAVCSPLCVIPPSDPMVLPENITADTLEHMMEPVKVQISIVCTGRQWHPDPVLVHICIOSC 1500
Db 1674 GAVCSPLCVIPPSDPMVLPENITADTLEHMMEPVKVQISIVCTGRQWHPDPVLVHICIOSC 1733
QY 1501 E 1501
Db 1734 E 1734

RESULT 5
US-10-675-685-10
; Sequence 10, Application US/10675685
; Publication No. US20040063134A1
; GENERAL INFORMATION:
; APPLICANT: Gu, Yizhong
; APPLICANT: Shannon, Mark
; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E
; FILE REFERENCE: PB0114
; CURRENT APPLICATION NUMBER: US/10/675,685

; CURRENT FILING DATE: 2003-09-30
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 1881
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 10
; LENGTH: 1770
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-675-685-10

Query Match 83.4%; Score 1299; DB 15; Length 1770;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1499; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 SPPEESNONGEGSYREAEFTNSQVGLPILYSGRRERLLRPEVLAIPREAFVTEAWV 60
Db 234 SPPEESNONGEGSYREAEFTNSQVGLPILYSGRRERLLRPEVLAIPREAFVTEAWV 293
QY 61 KPEGQNNPAIAGVFDNCSHTVSDKGWALGIRSGDKGRDARFFFSLCTDRVKKATIL 120
Db 294 KPEGQNNPAIAGVFDNCSHTVSDKGWALGIRSGDKGRDARFFFSLCTDRVKKATIL 353
QY 121 ISHSRYOPGTWTHVAATYDGRHMLVYDGTQVASSLDQSGPLNSPFMASGCSLLGGDSS 180
Db 354 ISHSRYOPGTWTHVAATYDGRHMLVYDGTQVASSLDQSGPLNSPFMASGCSLLGGDSS 413
QY 181 EDGHYFRGHLGTLVFWSTALPQSHFOHSSQHSSEGEATDVLVTASFEPVNTWVPFRDE 240
Db 414 EDGHYFRGHLGTLVFWSTALPQSHFOHSSQHSSEGEATDVLVTASFEPVNTWVPFRDE 473
QY 241 KYPRLEVLOGFEPEBILSPLOPLCGQYVCNVELISQYNGWPLRGEKVIYQVNNIC 300
Db 474 KYPRLEVLOGFEPEBILSPLOPLCGQYVCNVELISQYNGWPLRGEKVIYQVNNIC 533
QY 301 DDEGLNPVSEEQIRLOHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLNCEPSKIGN 360
Db 534 DDEGLNPVSEEQIRLOHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLNCEPSKIGN 593
QY 361 DHCDPECEHPLTGVDGDCRLQGRCYSMNRDGLCHVECNMMLNDFDDGDCDDPQVADVR 420
Db 594 DHCDPECEHPLTGVDGDCRLQGRCYSMNRDGLCHVECNMMLNDFDDGDCDDPQVADVR 653
QY 421 KTCFDPDSPKRAYMSVKELKEALQLNSTHPLNIYFASSVREDLAGAATWMDKDAVTHLG 480
Db 654 KTCFDPDSPKRAYMSVKELKEALQLNSTHPLNIYFASSVREDLAGAATWMDKDAVTHLG 713
QY 481 GIVLSPAYYGMPGHTDTMIHEVGHVGLYHVFKVSERESNDPCKETVPSMETGDLCAD 540
Db 714 GIVLSPAYYGMPGHTDTMIHEVGHVGLYHVFKVSERESNDPCKETVPSMETGDLCAD 773
QY 541 TAPTPKSELCREBEPTSDTCGFTFRPGAPFTNYMSYTDNCTDNFTPNQVARMHCYLDLV 600
Db 774 TAPTPKSELCREBEPTSDTCGFTFRPGAPFTNYMSYTDNCTDNFTPNQVARMHCYLDLV 833
QY 601 YQWTESRKPTPIPIPMVIGQTNKSLTIHMLPPISGVYDRASGSLCGACTEDGTFRQY 660
Db 834 YQWTESRKPTPIPIPMVIGQTNKSLTIHMLPPISGVYDRASGSLCGACTEDGTFRQY 893
QY 661 VHTASSRRVCDSSGYWTPEEAVGPPDVDPCEPSPLOAMSPEVHLVHMNTVPCPTGCSL 720
Db 894 VHTASSRRVCDSSGYWTPEEAVGPPDVDPCEPSPLOAMSPEVHLVHMNTVPCPTGCSL 953
QY 721 ELLFOHPVQADTLTIWTSFEMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKLAHV 780
Db 954 ELLFOHPVQADTLTIWTSFEMESSQVLFDTIELLENKESVHLGPLDTFCDIPLTIKLAHV 1013
QY 781 DGKVGKVTYTFDERIEIDAALLTSQPHSPSCGCRVRYQVLRDPPFASGLPVVVTSH 840
Db 1014 DGKVGKVTYTFDERIEIDAALLTSQPHSPSCGCRVRYQVLRDPPFASGLPVVVTSH 1073

Db 1327 CEPFOADGWCDTINNRAYCHYDGDCCSSTLSSKKVIPAADCDLDECTCRDPKAEENQ 1385

RESULT 7

US-10-675-685-16

; Sequence 16, Application US/10675685

; Publication No. US20040063134A1

; GENERAL INFORMATION:

; APPLICANT: Gu, Yizhong

; APPLICANT: Shannon, Mark

; TITLE OF INVENTION: NOVEL ISOFORMS OF HUMAN PREGNANCY-ASSOCIATED PROTEIN E

; FILE REFERENCE: PB0114

; CURRENT APPLICATION NUMBER: US/10/675,685

; CURRENT FILING DATE: 2003-09-30

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 60/236,359

; PRIOR FILING DATE: 2000-09-27

; NUMBER OF SEQ ID NOS: 1881

; SOFTWARE: Aeomica Sequence Listing Engine

; SEQ ID NO 16

; LENGTH: 1385

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-675-685-16

Query Match 36.8%; Score 574; DB 15; Length 1385;

Best Local Similarity 99.5%; Pred. No. 0;

Matches 1074; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 480 GGIVLSPAYYGMPGHTDTMIHEVGHVLGLYHVPKVSERESCSNDPCKETVPSMETGDLCA 539

Db 307 GGIVLSPAYYGMPGHTDTMIHEVGHVLGLYHVPKVSERESCSNDPCKETVPSMETGDLCA 366

QY 540 DTAPTPKSELCREPEPTSDTCGTRFPGARFTNYMSYTDNCTDNFTPNQVARMHCYLDL 599

Db 367 DTAPTPKSELCREPEPTSDTCGTRFPGARFTNYMSYTDNCTDNFTPNQVARMHCYLDL 426

QY 600 VYQWTESRKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLCGACTEDGTFRQ 659

Db 427 VYQWTESRKPTPIPIPMVIGQTNKSLTIHMLPISGVVYDRASGSLCGACTEDGTFRQ 486

QY 660 YVHTASSRRVCDSSGYWTPBEAVGPPDVDQCEPSLQAWSPEVHLYHMMNTVPCPTEGCS 719

Db 487 YVHTASSRRVCDSSGYWTPBEAVGPPDVDQCEPSLQAWSPEVHLYHMMNTVPCPTEGCS 546

QY 720 LELLFOHPVQADTLTLMWTSFPMESSQVLPFTTEILLENKESVHLGPLDTECDIPLTIKLM 779

Db 547 LELLFOHPVQADTLTLMWTSFPMESSQVLPFTTEILLENKESVHLGPLDTECDIPLTIKLM 606

QY 780 VDGKVSQVKKYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVTHS 839

Db 607 VDGKVSQVKKYTFDERIEIDALLTSQPHSPLCSGCRPVRYQVLRDPPFASGLPVVTHS 666

QY 840 HRKFTDVEVTPEGQWYQVLAAGAGELGEASPPLNHIHGAPYCGDGKYSERLGEBCDDGD 899

Db 667 HRKFTDVEVTPEGQWYQVLAAGAGELGEASPPLNHIHGAPYCGDGKYSERLGEBCDDGD 726

QY 900 LVSGDGCSKVCEBEGFNCVGEPSLCYMYEGDICEPFERKTSIVDCGIYTPKGYLDQWA 959

Db 727 LVSGDGCSKVCEBEGFNCVGEPSLCYMYEGDICEPFERKTSIVDCGIYTPKGYLDQWA 786

QY 960 TRAYSSHEDKKKCPVSLVTGEPHSLICTSYHBDLPNHRPLTGMFPCCVASENETQDDRSEQ 1019

Db 787 TRAYSSHEDKKKCPVSLVTGEPHSLICTSYHBDLPNHRPLTGMFPCCVASENETQDDRSEQ 846

QY 1020 PEGSLKKEDEVWLKVCFNRPGEARAFIFLITDGLVPGEHQOPTVTLVLTVDVRSNHSLSG 1079

Db 847 PEGSLKKEDEVWLKVCFNRPGEARAFIFLITDGLVPGEHQOPTVTLVLTVDVRSNHSLSG 906

QY 1080 TYGLSCQHNPILINVTTHQNVLFHHTTSVTLNFSSPRVGISAVALTSTSRIGLSAPSNCI 1139

Db 907 TYGLSCQHNPILINVTTHQNVLFHHTTSVTLNFSSPRVGISAVALTSTSRIGLSAPSNCI 966

QY 1140 SEDEGQNHQOSCIHRPCGKQDSCPSLLLDHADVNTSTIGPLMKCAITCORGALQAS 1199

Db 967 SEDEGQNHQOSCIHRPCGKQDSCPSLLLDHADVNTSTIGPLMKCAITCORGALQAS 1026

QY 1200 SGQYIRPMQKEILLTCSSGHWQDVSCIPVDCGVPDPSPLVNRYANBSCEGTFLKRCIS 1259

Db 1027 SEQYIRLMQKEILLTCSSGHWQDVSCIPVDCGVPDPSPLVNRYANBSCEGTFLKRCIS 1086

QY 1260 CVPRAKLGISFWLTCLEDGLWSLPEVYCKLECDAPPIILNANLLPHCLQDNHDVGTIC 1319

Db 1087 CVPRAKLGISFWLTCLEDGLWSLPEVYCKLECDAPPIILNANLLPHCLQDNHDVGTIC 1146

QY 1320 KYECKPGYVAESAEGKVRNKLKIQCLBGIWEQSCIPVCEPDPPEVFEQMYECTNGF 1379

Db 1147 KYECKPGYVAESAEGKVRNKLKIQCLBGIWEQSCIPVCEPDPPEVFEQMYECTNGF 1206

QY 1380 SLDSQCVLNCNQBREKLPILCTKEGLWTOEFKLCENLOGECPPPPSELSNVEYKCEQYIG 1439

Db 1207 SLDSQCVLNCNQBREKLPILCTKEGLWTOEFKLCENLOGECPPPPSELSNVEYKCEQYIG 1266

QY 1440 IGAVCSPLCVIIPSPDVMLPENITADTLEHWMBPVKQSVICTGRQWHPDVLVHCIOQ 1499

Db 1267 IGAVCSPLCVIIPSPDVMLPENITADTLEHWMBPVKQSVICTGRQWHPDVLVHCIOQ 1326

QY 1500 CEPFOADGWCDTINNRAYCHYDGDCCSSTLSSKKVIPAADCDLDECTCRDPKAEENQ 1558

Db 1327 CEPFOADGWCDTINNRAYCHYDGDCCSSTLSSKKVIPAADCDLDECTCRDPKAEENQ 1385

RESULT 8

US-09-864-761-34265

; Sequence 34265, Application US/09864761

; Patent No. US20020048763A1

; GENERAL INFORMATION:

; APPLICANT: Penn, Sharron G.

; APPLICANT: Rank, David R.

; APPLICANT: Hanzel, David K.

; APPLICANT: Chen, Wensheng

; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR

; FILE REFERENCE: Aeomica-X-1

; CURRENT APPLICATION NUMBER: US/09/864,761

; CURRENT FILING DATE: 2001-05-23

; PRIOR APPLICATION NUMBER: US 60/180,312

; PRIOR FILING DATE: 2000-02-04

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 09/632,366

; PRIOR FILING DATE: 2000-08-03

; PRIOR APPLICATION NUMBER: GB 24263.6

; PRIOR FILING DATE: 2000-10-04

; PRIOR APPLICATION NUMBER: US 60/236,359

; PRIOR FILING DATE: 2000-09-27

; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00667

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00664

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00669

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00665

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00668

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00663

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00662

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00661

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00670


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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 34265
; LENGTH: 192
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL031734.9
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 44
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.8
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.4
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 4.6
; OTHER INFORMATION: EST HUMAN HIT: AUI40701.1, EVALUUE 2.00e-53
; OTHER INFORMATION: SWISSPROT HIT: P07207, EVALUUE 3.00e-04
US-09-864-761-34265
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Query Match          12.3%; Score 192; DB 9; Length 192;
Best Local Similarity 100.0%; Pred. No. 1.2e-180;
Matches 192; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      239 DEKYRLEVLQGFEPREILSPLQPLCGQTVCDNVELISQYNGYWPRLRGEKYIRYQVNN 298
         |||||||
Db      1  DEKYRLEVLQGFEPREILSPLQPLCGQTVCDNVELISQYNGYWPRLRGEKYIRYQVNN 60
QY      299 ICDDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCPEPSKI 358
         |||||||
Db      61 ICDDEGLNPVSEEQIRLQHEALNEAFSRYNISWQLSVHQVHNSTLRHRVVLVNCPEPSKI 120
QY      359 GNDHCDPECEHPLTGYDGGDCRLQGRCSWNRDGLCHVECNMMLNDFDDGCCDPQVAD 418
         |||||||
Db      121 GNDHCDPECEHPLTGYDGGDCRLQGRCSWNRDGLCHVECNMMLNDFDDGCCDPQVAD 180
QY      419 VRKTCFDPDSPK 430
         |||||||
Db      181 VRKTCFDPDSPK 192
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```
RESULT 9
US-09-864-761-34264
; Sequence 34264, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
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; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 34264
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL031734.9
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 44
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.6
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.8
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.4
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.9
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 4.6
; OTHER INFORMATION: SWISSPROT HIT: P28977, EVALUUE 1.60e+00
; OTHER INFORMATION: EST_HUMAN HIT: BF366974.1, EVALUUE 4.00e-36
US-09-864-761-34264
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Query Match          4.5%; Score 70; DB 9; Length 70;
Best Local Similarity 100.0%; Pred. No. 2.1e-60;
Matches 70; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      75 VFDNCSHTVSDKGWALGIRSGKDKGRDARFFFSICTDRVKKATILISHSRYPGTWTHV 134
         |||||||
Db      1  VFDNCSHTVSDKGWALGIRSGKDKGRDARFFFSICTDRVKKATILISHSRYPGTWTHV 60
QY      135 AATYDGRHMA 144
         |||||||
Db      61 AATYDGRHMA 70
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```
RESULT 10
US-09-864-761-34262
; Sequence 34262, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
```

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; FILE REFERENCE: Aeomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 34262
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL031734.9
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 0.87
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 74
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.84
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.82
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.9
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.89
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.8
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.79
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1
; OTHER INFORMATION: EST_HUMAN HIT: AI075970.1, EVALU 7.00e-03
US-09-864-761-34262
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Query Match 4.0%; Score 63; DB 9; Length 63;
Best Local Similarity 100.0%; Pred. No. 1.6e-53;
Matches 63; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 GEGSYREAEFTNSQVGLPILYFSGRERLLLRPEVLAIIPREAFTEAWKREGGQNPA 70
   |||
Db 1 GEGSYREAEFTNSQVGLPILYFSGRERLLLRPEVLAIIPREAFTEAWKREGGQNPA 60

QY 71 ITA 73
   |||
Db 61 ITA 63
```

```
RESULT 11
US-10-741-600-1402
; Sequence 1402, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 1402
; LENGTH: 704
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-741-600-1402
```

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Query Match 1.2%; Score 18; DB 17; Length 704;
Best Local Similarity 100.0%; Pred. No. 4.4e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 585 FTPNQVARMHCYLDLVYQ 602
   |||
Db 440 FTPNQVARMHCYLDLVYQ 457
```

```
RESULT 12
US-10-334-143-85
; Sequence 85, Application US/10334143
; Publication No. US20040009549A1
; GENERAL INFORMATION:
; APPLICANT: GRIGORIEV, IGOR VYACHESLAVOVICH
; APPLICANT: SUDARSANAM, SUCHA
; TITLE OF INVENTION: METHOD FOR DETECTING REMOTE HOMOLOGUES AND NOVEL
; FILE REFERENCE: 038602/1543
; CURRENT APPLICATION NUMBER: US/10/334,143
; CURRENT FILING DATE: 2002-12-31
; PRIOR APPLICATION NUMBER: 60/343,169
; PRIOR FILING DATE: 2001-12-31
; NUMBER OF SEQ ID NOS: 207
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 85
; LENGTH: 858
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-334-143-85
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Query Match 1.2%; Score 18; DB 15; Length 858;
Best Local Similarity 100.0%; Pred. No. 5.3e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 585 FTPNQVARMHCYLDLVYQ 602
   |||
Db 594 FTPNQVARMHCYLDLVYQ 611
```

```
RESULT 13
US-10-741-600-1404
; Sequence 1404, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 1404
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```

; LENGTH: 1232
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-741-600-1404

```

```

Query Match          1.2%; Score 18; DB 17; Length 1232;
Best Local Similarity 100.0%; Pred. No. 7.3e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      585 FTPNOVARMHCYLDLVYQ 602
      |||||
Db      440 FTPNOVARMHCYLDLVYQ 457

```

RESULT 14

```

US-10-741-600-1403
; Sequence 1403, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 1403
; LENGTH: 1420
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-741-600-1403

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```

Query Match          1.2%; Score 18; DB 17; Length 1420;
Best Local Similarity 100.0%; Pred. No. 8.3e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      585 FTPNOVARMHCYLDLVYQ 602
      |||||
Db      440 FTPNOVARMHCYLDLVYQ 457

```

RESULT 15

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US-10-741-600-1405
; Sequence 1405, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE REFERENCE: CL001499
; CURRENT APPLICATION NUMBER: US/10/741,600
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 73997
; SOFTWARE: FastSeq for windows Version 4.0
; SEQ ID NO 1405
; LENGTH: 1420
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-741-600-1405

```

```

Query Match          1.2%; Score 18; DB 17; Length 1420;
Best Local Similarity 100.0%; Pred. No. 8.3e-08;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

QY      585 FTPNOVARMHCYLDLVYQ 602
      |||||
Db      440 FTPNOVARMHCYLDLVYQ 457

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Search completed: August 25, 2005, 22:32:01
Job time : 120 secs